Animesh Sharma

Indian Institute of Technology, Goa

Third Year **Undergraduate**, **Electrical** Engineering
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Objective

I am a hard working and enthusiastic individual who is quick to learn and implement. I am a team player. I have been part of teams both as a leader and a follower. I have skills both in technical and non-technical aspects of a project.

Education

Indian Institute of Technology Goa
Batch of 2017-Present | CPI: 8.31/10.00
- Student for Bachelors of Technology, Electrical Engineering from the School of Electrical Sciences, IIT Goa.

CRPF Public School, Dwarka, New Delhi
CBSE Board 2014-16 | Score: 94.2%

Course Project

Built a Car with an alcohol sensor with engine locking system
Under the guidance of Dr. Nandkumar Nambath/ January-April 2018
Worked in a team to design the electrical circuitry which included a motor driving circuit along with the power supply. The team was comprised of 4 members. The Car was designed to send a message to emergency contact along with the location of the car. The engine is also stopped which prevents potential accidents.

Designed a Car Over-Speeding Detection project
Under the guidance of Dr.Bidhyadar Subudhi/August-November 2019
Led a team of four to design a car overspeeding project using Ultrasonic sensors. The project detected the speed of the car using carefully calibrated and placed ultrasonic sensors and raised an alarm if the car exceeded the speed limit.

Technical Experience

Designing a portable potentiostat
Under the guidance of Dr. Bidhan Pramanick/ June-July 2019
Designed a portable potentiostat, which plotted the potential vs. current curve for chemical and biological systems. The project consisted of making the potentiostat portable, designing a user-friendly UI, programming the Microcontroller (Arduino Mega) and calibrating the values of components to achieve suitable results and achieving the range of **1 microA**. Designed PCB for the circuit to reduce noise.

Developing a prototype to sense blood glucose levels through non-invasive means
Under the guidance of Dr. Bidhan Pramanick/ [Ongoing]
Designing a prototype for Detecting Non-invasive blood glucose levels in humans. Designing the circuitry to make the circuit more precise to the range of **1 nA**. Designing an app to make the app easy to use for end-user consumers and not just professionals. Designing PCB to make the product compact, reduce noise and make the product more economical. Researching ways to incorporate suitable display to make the interface more user-friendly.

Made Bluetooth controlled car
Built a remote-controlled car using Arduino Uno, DC Motors along with L293D(Motor controller). Developed an app using MIT App inventor to control the car via a Bluetooth module (HC-05).

Skills

Computer Skills: C, C++, Python, Java, Assembly language, HTML, AutoCAD, Solidworks, MS Word, MS Excel, LateX.
Electrical Skills: Microprocessor 8085 and Microcontroller 8051, VHDL, Quartus, Arduino, FEM: Magnet Software, Ngspice, EAGLE, MATLAB, Simulink

Positions Of Responsibilities

General Secretary Sports	Head position of IIT Goa Student Sports Council (2019-Present)
Secretary, Outdoor Sports (FV)	Member of IIT Goa Student Sports Council (2018-2019)
Motorsports Team Core Member	Business head in Motorsports Team of IIT Goa (2017-2019)
Captain of Aquatics Team	Captain of the Aquatics team at Inter-IIT Aquatics Meet (2019)
Core Member of Chakravyuh	Core member of the organising team of Chakravyuh(2019)
Registration Team Head	Head of the registration team of Cultrang 2020.

Achievements

-AIR 47 National Centre of Financial Education- National Financial Literacy Assessment Test (2014)
-Student of The Year – Times of India (2015)
-Selected to go to Coimbatore to represent IIT Goa Motorsports at Formula Bharat (2019)

Extra-Curricular and Hobbies

- Selected for Football for Inter IIT Sports Meet, 2018
- Selected for Swimming for Inter IIT Aquatics Meet, 2019
- Selected for Football for Inter IIT Sports Meet, 2019
- Chief organiser Liga Nogometa , IIT Goa's Futsal Tournament

Baid **Arihant** Rajendra

Indian **I**nstitute of **T**echnology, **G**oa

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Objective

Dedicated and Motivated 3rd year Electrical Engineering student with exceptional problem-solving skills looking for internship in a fast-paced organization where excellence is relevant. Coming with the decent coding skills and proper knowledge in Microcontrollers, Digital Systems and Power Electronics, I am looking for an internship in an organization where I can apply my knowledge, gain some experience and be fruitful to the organization.

Education

Indian Institute of Technology Goa
Batch of 2017-21 | CPI: 7.21/10.00
- Candidate for Bachelors of Technology, Electrical Engineering from the School of Electrical Sciences, IIT Goa.
- Relevant Coursework: Microprocessors - 8085 and 8051, Electromagnetic Waves, Communication Systems, Power Electronics, Digital Systems, Electrical Machines

St. Xaviers High School, Surat
- *Gujarat State Board 2015-17 | Score: 88%*
- Did Matriculation from GSEB

Course Projects & Technical Experience

Hand Gesture Controlled Robotic Vehicle
November 2019
- Used accelerometer to detect the motion of the hand and transmitted the signals after processing it through the Arduino and received the transmitted signals at the vehicle end by receiver and gave the instructions to the motor controller to perform the required actions via Arduino UNO.
- Handling the sensitivity of the accelerometer was the biggest hurdle

Automated Traffic Control
April 2019
- Used IR Modules to determine the traffic density at a particular place at any particular time and made the lights automated accordingly using the Arduino UNO.

Work Experience

Weldomac Engineering
Intern | May-June 2019
- Performed Time motion study of the Tata Hitachi Shinrai BX-80 Mainframe including all Job Stations. It included careful observation of all the manufacturing processes required like Grinding, Welding, Machining, etc and improving the manufacturing process by suggesting proper improvements.
- Checked, improved and deployed preventive maintenance check sheet for all key machineries and got to know about the working of CNC Machine and PLC coding used in it

Extracurriculars & Positions Of Responsibilities

Cult Rang, PR Team Leader: IIT Goa Cultural Festival Organising Team [Dec 2018-Present]
Senior Correspondent: IIT Goa Institute Editorial Board: Gurukul Varta [Aug 17- Jan 2019]

Skills

Computer Skills : C, C++, Simulink, VHDL Simulator, GNUSim 8085, Keil
Other Programmes: AutoCAD, Eagle CAD, Solidworks, MagNet, MS Word, MS Excel
Cocurricular Interests : Swimming, Playing piano

DEVESH KACHHWAH

Indian Institute of Technology, Goa

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Objective

I am an Electrical Engineering student with excellent communication and interpersonal skills and good academic performance, Seeking for an internship in an environment that will challenge me further, while allowing me to contribute to the continued growth and success of the organization.

Education

Indian Institute of Technology Goa
Batch of 2017-21 | CPI: 9.86/10.00
- Student of Bachelors of Technology, Electrical Engineering from the School of Electrical Sciences, IIT Goa..

Kendriya Vidyalaya No.6 Jaipur
CBSE Board 2015-17 | Score: 93%
- Did Matriculation from Kendriya Vidyalaya No.6 Jaipur in Sciences with Bio-focal in Computer Sciences.

Course Projects & Technical Experience

Microprocessor Lab, IIT Goa: Voice Controlled Wheelchair [Academic Project]
- Designed and Manufactured a Robotic Voice Controlled Wheelchair using pt-51 board (8051 microcontroller), L293D motor driver,HC-05 Bluetooth Module.
- Developed an app for converting speech to text and sending it serially via Bluetooth interface using MIT app inventor.

Digital Electronics Lab, IIT Goa: Smart Stick for blind people [Academic Project]
- Designed and Manufactured a smart stick that can detect obstacles ahead and warn the user by intensity of vibrations and buzzer.
- Additional feature of buzzer beeping loudly when lost to tell the user it's location.

Gesture Controlled Slideshow viewer using PLC and Scada
- Designed and manufactured a Gesture Controlled Slideshow viewer using Delta PLC, Proximity Sensor, and Scada Interface.

Work Experience

220 kV GSS Mansarovar, Jaipur(RRVPNL)
Summer Engineering Intern | May-June 2019
- Learned about working of various Equipment used in Power Grid Sub Station like CVT, Circuit breakers, Transformers etc.

Skills

- **Computer Skills:** C, C++, Phython,AutoCAD, Solidworks, MATLAB, SCADA, Quartus(VHDL), Keil, GNUsim8085, MS Word, MS Excel.
- **Electrical Skills:** VHDL, RS Logix(PLC) , Ardiuno,8085 microprocessor and 8051 microcontroller, Finite element method.

Positions of Responsibilities

Electronics and Robotics Club:	Core Member of the Electronics and robotics club IIT Goa (2018-present)
Motorsports Team IIT GOA:	Core Member of the Team for the safety system in the Electrical Vehicle (2018-2019)

Awards and Scholarships

- **National Talent Search Exam (NTSE) scholar** – National level exam conducted by Govt. of India.(10th class).
- **Kishore Vaigyanik Protsahan Yojana (KVPY) fellowship** - National level exam conducted by Govt. of India.(11th class).
- **Junior Mathematical Olympiad cleared**- National level exam conducted by Govt. of India.(11th class).
- **Sakura Exchange program**- International level exchange program between Govt. of India and Govt. of Japan (1 week visit to japan).
- **Cleared many Olympiads like:**
  - **International math Olympiad**-National level Mathematics Olympiad organised by Science OlympiadFoundation (SOF).
  - **National Science Olympiad** --National level Science Olympiad organised by Science Olympiad Foundation(SOF).
  - **NSTSE**-National level Science Olympiad organised by Unified Council.

Interests and Hobbies

- Learning about new technologies
- Listening to music

Birhare **Gouri**
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Objective

Being a hardworking and self-reliant with quick learning ability I have acquired knowledge of Power systems, Microprocessors, Electric Machines, Power Electronics, Analog Circuits, Communication systems, Digital Systems, Electromagnetic Waves. I have developed my skills in various simulation softwares. I am sure to work within a dynamic environment that enables me to utilize my knowledge and learn new things, and to progress professionally and personally. I am aiming to work in the field of Power System.

Education

Indian Institute of Technology Goa
Batch of 2017-21 | CPI: 6.1/10.00
- Candidate for Bachelors of Technology, Electrical Engineering from the School of Electrical Sciences, IIT Goa.
- Relevant Coursework: Power systems, Microprocessors, Electric Machines, Power Electronics, Analog Circuits, Communication systems, Digital Systems, Electromagnetic Waves, Control Systems, Digital Communication Systems

Sharda Mandir Girl's High School, Aurangabad
Maharashtra State Board (SSC) 2015 | Score: 92.2%

Projects & Technical Experience

RFID system for Passive Tags [Academic Project]
Under the guidance of Dr. Nandakumar Nambhath
Jan 2020-Present
- Design and implementation of an RFID system for passive tags
- System can be used for institute-wide applications such as attendance, library

Coke Vending Machine [Academic Project]
March-April 2019
- Design and simulate the vending machine that can be used via both Bluetooth and Manually

Mop-Bot [Academic Project]
Sept -Nov 2019
- Mopping robot whose motion is controlled by Bluetooth App and having options as deep cleaning

Electronic Current Transformer [Individual Project]
- Study the basics of Non-conventional Electronic Current Transformer
- Using Optic current sensor and Faraday Effect
- Different Type tests other than those are for Conventional Transformers

Work Experience

CG Power and Industrial Solutions Limited, Nashik
  (Switchgear Division: Power System)
Summer Engineering Intern | May-June 2019
- Working and manufacturing of switchgear components like current and voltage transformers, circuit breakers, lightning arresters
- Gas insulated switchgear (GIS) manufacturing
- Type testing of components in Ultra High Voltage (UHV) Lab

Experts Hub Industry skill development centre, Pune
IOT based workshop | December 2018
- Working on real time IOT application-based projects
- Automatic system that can control traffic and clear the path for the ambulance

Extracurriculars & Positions of Responsibilities

Chakravyuh, Sports Fest:	Founder and mentor of the first Sports Fest of IIT Goa [Jan 2019]
Sports Council [IIT Goa]:	Member of Sports Council [July 2018- May 2019]
Participated in Inter IIT Sports Meet:	Represented Women Badminton Team of IIT Goa at *Madras* and *Guwahati* [Dec 2018, Dec 2019]
Originals, Photography Club:	Member of photography team of IIT Goa [Jan 2018- May 2018]

Skills

Programming Languages:	C++, MATLAB, VHDL
Simulation Softwares:	Magnet, Keil and Flip, GNU8085, Quartus and Modelsim, Simulink (MATLAB), NGSPICE
CAD Software:	Autocad
Electronic Components:	Arduino, Sensors, Microprocessor, Microcontroller, Stepper motor, Servo motor, DC motor
Microsoft Software:	Excel, Powerpoint, Word, Office

Meghej Khandelwal

Indian Institute of Technology, Goa

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Objective

Seeking internship in Electrical Engineering to broaden my mind, pursue practical knowledge, implement my knowledge in electrical and electronics subjects in real life applications and bring a constructive change in society. Being an all rounder is my main motive let it be in research, corporate world or in real life, I want to be an ideal leader.

Education

Indian Institute of Technology Goa
Batch of 2017-Present | CPI: 8.2/10.00   [completed 5 semesters]
- Student for Bachelors of Technology, Electrical Engineering from the School of Electrical Sciences, IIT Goa.

BSN Academy, Kota, Rajasthan
CBSE Board 2014-16 | Score: 85%

Course Projects

Built a fully autonomous maze solver bot[Report] :
- Divided work into 2 teams,2 students in each team, one team performed programming part and other team performed the hardware design part, I was in hardware team. The bot was built using Arduino, Ultrasonic and Infrared Sensors to detect walls, DC Motors and L293D. The bot was designed to store only correct path and dijkstra algorithm was used to ind the shortest path.

Built a prototype of fully autonomous underwater swimming pool surface algae cleaner bot:
- Worked with a team of 4 students, performed tasks of mechanical body design, programming and hardware design part. The bot was built using Arduino, Ultrasonic sensor, DC Motors, L293D, Propeller.

Made Bluetooth controlled car
- Built a remote controlled car using Arduino and DC Motors along with L293D. developed an app using MIT App inventor to control the car via HC-05 Bluetooth module.

Technical Projects

Building a fully autonomous lying drone to detect oil leakages and cracks along with it's location in ships [In Progress]:
[Supervisor – Prof. Bidhan Pramanik] [Nov. 2019 - Present]
- The project is divided into 3 levels, the bot will be designed such that it will leave from sea shore to the ship which will be few meters away from sea shore, bot will use a sensor to detect certain properties of water, if found the components of oil then it will send a warning signal to the ship along with that it'll search for the leakage position also .

Formula Bharat [In Progress][2019 - Present]:
- Building an electric car is the motive of this project, I am working as a core member in the electrical department of this team. Currently I have worked on Insulation Monitoring Devise and various Connectors used in PCB, Integration of vehicle parts etc.

Experience

Interned at IIT Bombay under Prof. Gadre, with DRDO (Bangalore) Scientist Dr. Peeyush Sahay
Reviewed and Modi ied the thesis titled "Higher Order Time Frequency Methods and It's Application in RADAR " by Dr Peeyush Sahay. The review included checking mathematical derivations, simulation of results and reviewing theory content in a team of 5 members. The thesis (which mentions my name in the acknowledgements) is under review and may soon be published.

Skills

Computer Skills:C, C++,Python, Java, MATLAB, AutoCAD, Solidworks, MS Word, MS Excel, Latex.
Electrical Skills: Microprocessor 8085 and Microcontroller 8051, VHDL, Arduino UNO, FEM : Magnet Software, NGspice.
Relevant Coursework: Microprocessor and Microcontroller, Electronic Devices, Signals and Systems, Digital Electronics, Analog Circuits, EM Waves

Positions Of Responsibilities

General Secretary Academics	Head position of IIT Goa Student Academic Council (2019-Present)
Class Representative	Class Representative of IIT Goa EE Batch of 2017 (2017-2019)
Innovation Cell	Core Member of IIC (Institute Innovation Council), IIT Goa (2018-Present)
Motorsports Team Core Member	Core Member of Motorsports Team of IIT Goa (2019-Present)
Student Mentorship Program	Assigned and mentored to 7 Students (2018-Present)

Achievements

-Team lead by me was selected from IIT Goa for Innovation Contest POC (Proof of Concept) by MHRD
-Volunteered as Teaching Associate for TEQIP Program at IITB (active learning workshop organized by MHRD)

Extra Curriculars and Hobbies

- Selected for Table Tennis for Inter IIT Sports Meet, 2018
-Lead several team projects in college
-Playing Table Tennis, Lawn Tennis, and Running

-Hosted several events in college (Independence Day, Republic Day, Gandhi Jayanti etc)
-Watching Movies

Datar **Noopur** Manoj

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Education

Indian Institute of Technology Goa
 Batch of 2017-21 | CPI: 8.24/10.00
The Eminent Heights Public School, **Vidisha**
 Madhya Pradesh State Board 2015-17 | Score: 90.02%

Course Projects & Technical Experience

Electronic Lock, **Microprocessors, IIT Goa: [Academic Project under Prof. Bidhyadhar Subudhi]**
October 2019
- o Designed and prototyped an electronic lock which can be opened by fingerprint, RSA tag, 4-digit pin with a safety alarm and lockdown when misused. The components were controlled using an Arduino Nano.

(Re)Designing of implements for farmers in Goa, Technology and Society- Learning (TASLe), IIT Goa [Institute Elective Project under Prof. Gajanan Prabhu Gaonkar]
August 2019
- o Understood and learnt process/ practice of peeling Areca nut and Cashew nut.
- o Designed a new hand implement to peel open processed Areca nut using physical hand strength.
- o Observed and analysed the problems faced at the ground level and suggested technical(mechanical) and economic solutions to benefit the state and the farmers.

Hook me up! Proof of Concept, Institute Innovation Council, IIT Goa: [Entrepreneurship Idea/ Project]
Sept 2019
- o Designing a portable, customizable, home beautification product to hang objects on walls without nails and damage.
- o Designing and prototyping the product using the principle of Bi stable arches and vacuum suction.

Game Score Display Board, Digital Systems, IIT Goa [Academic Project under Prof. Nandkumar Nambath]
March 2019
- o Designed an electronic board to display to scores of various games using Arduino UNO, 7-segment displays and LCD screens. The board used 9 TM1637 7 segment displays, 2 JHD162A LCD displays and an Arduino Mega to interface all of them.

Motor Sports, IIT Goa
Jan-Oct 2018
- o Designed brochures, logo, visiting cards, website for the Designing Team

Work Experience

Digital Signal Processing Lab, IIT Bombay
Interned under the Guidance of **Prof. Vikram Gadre**, *Electrical Engineering Dept, IIT Bombay | May-June 2019*
- o Understood application of Time Frequency Signals in RADAR.
- o Critically reviewed the PhD Thesis by **Mr. Peeyush Sahay**, proposing a new Ambiguity Function based transform to improve signal detection results in RADAR

Summer Project - IIT Bombay
Interned under the Guidance of **Prof. Raghava Varma**, *IIT Bombay | May-June 2018*
- o Learnt basics of Machine Learning through YouTube Lectures by Andrew N G.

Technical Knowledge and Skills

Coursework: Electrical Machines, Power Electronics, Signals and systems, Analog Circuits, Economics, Probability and Random Processes, EM Waves, Communication Systems, Power Systems, Digital Signal Processing.
Computer Skills: C++, LaTeX, VHDL GNUSim8085, Keil μVision, AutoCAD, Solid Works, MS Word, MS Excel, Adobe Illustrator, Adobe Photoshop, Adobe InDesign, Inkscape.
Manufacturing Processes: Welding, Lathe Machine Operations, Drilling, Milling.

Extracurriculars & Positions of Responsibilities

- o Selected for **Massachusetts Institute of Technology, USA - India Design Innovation Workshop**, 2020.
- o Served as the **Girls' Representative, Hostel and Sports** for the Council of Hostel Affairs, IIT Goa for the academic year 2019-20.
- o Served as a **Core Member**, **Economics Club** under the Student Technical Activities Body, IIT Goa for the academic year 2019-20.
- o Served as a **Media Team Supervisor (core member)** for the Institute Innovation Council, IIT Goa for the academic year 2019-20.
- o **Established Eunoia: Fine Arts Society** under the Cultural Council, IIT Goa and served as the **Head** and a **Core Member** for the academic year 2018-19 and 2019-20 respectively.
- o Served as a **Core Member**, **Electronics and Robotics Club** under the Student Technical Activities Body, IIT Goa for the academic year 2018-19.
- o **Participated** in the **Street Play competition at Inter IIT Cultural Meet,** 2018-19 representing IIT Goa.
- o Served as **Core Organizing Member for Flock**, First Intra College Cultural Fest, IIT Goa in the academic year 2017-18.

Obaidur Rahman

Indian Institute of Technology, Goa

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https://github.com/Obaid2501

Objective

Enthusiastic Electrical Engineering College student with an interest in areas of Robotics, Microelectronics, Microprocessors, Deep Learning and a fascination for UAVs. Did some interesting academic technical group projects as the team leader. Looking for an opportunity to apply technical knowledge gained till now and gain some industry experience, preferably in the above-mentioned fields.

Education

Indian Institute of Technology Goa
Batch of 207-21 | CPI: 7.60/10.00
- Candidate for Bachelors of Technology, Electrical Engineering from the School of Electrical Sciences, IIT Goa.
- Relevant Coursework: Microprocessors and Microcontrollers, Communication Systems, Digital Logic, Analog Circuits, Signals and Systems, Machines and Power Electronics, Electronic Devices

Bal Bhavan School, Bhopal
CBSE 2015-16 | Score: 92.4%
- Did Matriculation from CBSE Board in Physics, Chemistry and Maths (PCM).

Course Projects & Technical Experience

IIT Goa Motorsports
Electrical Department | Jan2018-present
- Member of Institute Motorsports Team founded to compete in the national collegiate level competition, Formula Bharat.
- Designed the circuit and got manufactured the PCBs of
    1) Brake System Plausibility Device (BSPD)
    2) Shutdown Circuit
- Designed the PCB of Tractive System Active Light (TSAL)

Hand gesture controlled robotic vehicle (Academic Project)
Nov 2019
- Made a hand gesture controlled robotic vehicle as a part of lab project

Automated Traffic Control System (Academic Project)
- A traffic control system where the time for green light gets adjusted automatically in real time according to the number of vehicles waiting

Summer Internship 2019 (Quadrature phase voltage controlled oscillator)
May-June 2019
- A summer research internship under Dr. Nandkumar Nambath (at IIT Goa) on the topic Quadrature phase voltage controlled oscillator.

Extracurricular & Positions Of Responsibilities

Cult Rang, Finance Management Team: IIT Goa Cultural Festival Organising Team [Jan 2019-Present]
Organised GoC Round 2:   GoC - An Institute level coding competition
Inter IIT Tech Meet, IIT Bombay, 2018:   Represented the Institute in the Inter IIT Tech Meet 2018 in the event 'Case Study'
Core member of Electronics and Robotics Club: Organised robotics workshops and events.

Skills

Computer Skills: C, C++, python, HTML, CSS, JavaScript, MS Word, MS Excel
Technical Software skills: Eagle, AutoCAD, Solidworks, MATLAB, Simulink, MS Word, MS Excel

Vishwakarma **Prasoon**
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Objective

Critical thinker with artful experience to produce innovation in complicated systems. Deeply interested in Power and Control Engineering due to ongoing study and research. Dream to bridge the sustainability-efficiency gap through further technology refinement. Inclined to work on real-world problems and model viable solutions through dedication and association in your organization.

Education

Indian Institute of Technology Goa
Batch of 2017-21 | CPI: **8.66**/10.00
- Pursuing Bachelors of Technology, Electrical Engineering in the **School of Electrical Sciences**, **IIT Goa**.
- Relevant Coursework: Power Systems, Control Systems, Digital Signal Processing, Digital Communication, EM Waves, Microprocessors, Signals and Communication Systems, Probability and Random Processes, Machines, Power Electronics, Data Analytics, Electrical Digital and Analog Systems, Electronic Devices, Network Theory, Differential Equations, Complex Analysis, Linear Algebra

Ryan International School, Rohini, Delhi
Central Board of Secondary Education 2015-17 | Score: **94.2%**
- Matriculation from CBSE in Sciences with Bio-focal in Engineering Drawing.

Online Courses, Course Projects & Technical Experience

Voice Controlled Wheelchair: Microprocessors Lab, IIT Goa [Academic Project]
Dr. Bidyadhar Subudhi | October-November 2019
- Designed Bluetooth interface voice-controlled wheelchair prototype in a team of four.
- Used *8051 microcontroller, DC Motor, DC 12V Battery, L293D Motor Drive* and *HC05 Bluetooth Module.*
- Code Implementation using *Kiel* software and *MIT app inventor* for Bluetooth interface app.

Morse Code Interface: Digital Systems Lab, IIT Goa [Academic Project]
Dr. Nandakumar Nambath | April 2019
- Designed a Two-end Morse Code Interface prototype in a team of four.
- Used *Arduino IDE, LM393, 16*2 LCD, Buzzers, Push buttons*, etc.
- Appreciated by the faculty advisor for out-of-box thinking and a cost effective idea.

Bluetooth Controlled RC- Car, INICIO, IIT Goa
May-July 2018
- Developed an RC Car using *Arduino, 12V battery, 12V 300rpm dc motors,* etc. working in a team of three.

From Dark Energy to Big Bang, Coursera [Online Course]
July-August 2019
- Certified for scoring 96.2% in the 4-week online course by *University of Tokyo* in *Cosmology.*

Particle Physics: an Introduction, Coursera [Online Course]
July-August 2019
- Certified for scoring *81.5*% in the 8-week online course by *University of Geneva* in *Particle Physics.*

Experience and Internships

Indian Institute of Technology Goa
Summer Engineering Intern | May-June 2019
- Completed 6-weeks internship under able mentorship of Dr. T. S. Rathore, ex-IIT Bombay Professor.
- Studied "*NDD Function*" in field Network Analysis and found its applications.
- In-process of converting my work into research paper on topic *"Applications of NDD-Functions".*

Johnson Lifts & Escalators Pvt. Ltd., Delhi
Summer Intern, Dr Sourav Sen, AGM | July-August 2019
- Completed 4-weeks internship learning lift machinery and technology.
- Familiarized with lift complete architectural volumes of the company.
- Studied the Intercom (*CAN, RS422 comm.*), emergency system, sensors, microcontrollers (*AT89C51CC03*), drives (*VVVF, Electric traction*), etc.

National Thermal Power Corporation Limited, Delhi
Intern | June 2018
- Disciplined under 1-month industrial internship at the thermal power plant.
- Familiarized with the power generation (*Gas and Steam Cycle*), control, hazard security, transmission, etc. inside the plant.
- Acknowledged for presenting an excellent internship report.

Zooniverse
Research Volunteer | Feb 2018-Present
- Active participant for crowd-sourced data classification.
- Presently involved in two projects-*Gravity Spy* and *Space Wraps-HSC.*

Extracurricular & Positions of Responsibilities

Chairman, IEEE Student Branch:	Founder, College Student Branch, 2020, IIT Goa
Coordinator, Internship and Placement Cell:	Electrical Engineering 2017 Batch, 2019-Present, IIT Goa
Core Member, Institute Innovation Cell:	RnD, Industry and Academia, and IPR team Supervisor, IIT Goa
Fine Arts, Live Sketch:	InterIIT Cultural meet, 2018, IIT Roorkee
Team Leader, PlutoX Hackathon:	InterIIT Tech meet, 2018, IIT Bombay

Skills

Computer Skills: MATLAB, Simulink, GNUsim8085, Quartus, MAGnet, Flip Atmel, NGSpice, AutoCAD, Latex, Arduino, SolidWorks, AutoCAD
Miscellaneous: Fine Arts, Engineering Graphics, Piano, Football, Basketball, Poetry, Running, Novels, Cosmology
Language: English, Hindi, French

Arora **Priyanka**
Indian **I**nstitute of **T**echnology, **G**oa

Third Year **Undergraduate**, **Electrical** Engineering
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Objective

Looking for a platform to apply my Electrical Engineering knowledge to the real world. I wish to gain experience in the Research and Development department of industries.
Also, I am interested in learning about new advancements and technologies related to Electrical Sciences.

Education

Indian Institute of Technology Goa
Batch of 2017-21 | CPI: 7.74/10.00
- Candidate for Bachelors of Technology, Electrical Engineering from the School of Electrical Sciences, IIT GOA
- Relevant Coursework: Microprocessors, Power Systems, Electric Machines, Power Electronics, Analog Circuits Communication Systems, Digital Systems, Electromagnetic Waves, Control Systems, Digital Communication Systems

Kanha Public School, Mathura
AISSCE CBSE, 2017 | Score: 90.8%

Delhi Public School, Mathura Refinery Nagar
AISSE CBSE, 2015 | Score: 10.0/10.0

Course Projects & Technical Experience

Automatic Vending Machine [Academic Project]
January-April 2019
- Design and Manufacture a beverage vending machine that receives the payment and serves the customers.
-
Village level assessment of drinking water services, Technology and Society –Learning (TASLe), IIT Goa [Elective Project]
July-November 2019
- An Academic Case Study of the drinking water crisis in SavoiVerem, Goa, involved field visits and report writing.
-
Automatic Floor cleaning bot [Academic Project]
July-November 2019
- Design and built a Bluetooth controlled bot that could navigate and clean the floor.

Work Experience

Invent@IITGN 2019
Summer Program | May-June 2019
- Summer program in inventing, patenting and prototyping.
- Invented **HydroCheck**, wristband that monitors hydration levels of the human body.
- Built a circuit for calculating bio-electrical impedance of the skin.
- Filed Indian and US patent applications.

Crompton Greaves Limited, Bethoda Unit, Goa
Intern | Dec 2018
- Basic industrial internship, getting acquainted with a ceiling fan manufacturing industry.

Boosters EduTech Private Limited
Intern | June-July 2018
- Problem Solving internship

Extracurriculars & Achievments

Participated in drone hackathon:	Inter IIT Technical Meet at IIT Bombay 2018
Winner:	Poster Making Competition, IIT GOA

Skills

Software: MATLAB, GNUSim, Keil, Flip, Magnet, NGSPICE, Quartus and ModelSim
Programming skills: Python(basics),Arduino programming
Design skills: AutoCAD, SolidWorks, Fusion

Hobbies: Football, Oil painting

Nair **Rohit** Mukundan
Indian Institute of Technology Goa

Third Year **Undergraduate** , **Electrical** Engineering
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Education

Indian Institute of Technology Goa
Batch of 2017-21 | CPI: 9.21/10.00
- Candidate for Bachelors of Technology, Electrical Engineering from the School of Electrical Sciences, IIT Goa.

SIES College of Arts, Science & Commerce, Sion (W), Mumbai
Maharashtra State Board 2015-17 | Score: 89%
- Higher Secondary Certificate from Maharashtra Higher Secondary Board in Computer Science.

Course Projects & Technical Experience

Microprocessors Lab, IIT Goa: Electronic Lock [Academic Project]
November 2019
- Designed a prototype electronic lock which can be opened by fingerprint, RSA tag, 4-digit pin with a safety alarm and lockdown when misused. The components were controlled using an Arduino Nano.

Digital Systems Lab, IIT Goa: Game Score Display Board [Academic Project]
March 2019
- Designed a prototype electronic board to display to scores of various games using Arduino UNO, 7-segment displays and LCD screens. The board used 9 TM1637 7 segment displays, 2 JHD162A LCD displays and an Arduino Mega to interface all of them.

IIT Goa Motorsports
Jan -Oct 2018
- Designed the emergency shutdown circuitry for a Formula Style Electric Racing Vehicle by interfacing all the safety systems like the Insulation Monitoring Device (IMD), Brake System Plausibility Device (BSPD), shutdown buttons, Accumulator Management System (AMS) and Inertia Switch.

Work Experience

Summer Project - IIT Bombay
Summer Project | May-June 2018
- Learnt basics of Machine Learning for its application in Physics under Prof. Raghava Varma.

Skills

Languages: C++, Python, VHDL, GNUSim8085, LaTeX
Softwares: Keil µVision, AutoCAD, MS Word, MS Excel
Electrical Course Work: Electronic Devices, Analog Circuits, Digital Systems, Electrical Machines and Power Electronics, Microprocessors, Probability and Random Processes.
Spoken Languages: English (Fluent), Hindi (Conversational), Marathi (Conversational), Malayalam (Basic)

Extracurriculars & Positions Of Responsibility

Core Member, Electronics & Robotics Club, IIT Goa	IIT Goa, Student Technical Activities Body, [Aug 18 - Present]
Inventory Manager	IIT Goa, Student Technical Activities Body, [Aug 19 - Present]
Student Coordinator, CATeRS Arduino Workshop	IIT Goa, Centre for Appropriate Technology for Rural Sectors, Sept 2019
Organiser, Remote Control Car Workshop	IIT Goa, Student Technical Activities Body, Academic Year 2018-19, 2019-20
1st Year Student Mentor	IIT Goa [Aug 18 - Present]
Organiser, Flock 2018	IIT Goa, Cultural Festival 2018
Member, Basketball Team	Inter IIT Sports Meet 2019, IIT Kharagpur

Sameehan Vivekanand Deodhar
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EDUCATION

Indian Institute of Technology, Goa	**B.Tech – Electrical Engineering**	**8.61** (Ongoing)
Rajiv Gandhi School for E-Learning,PUNE	Board-H.S.C. -- 12th Standard	87.38%
Sevasadan English Medium School, PUNE	Board-S.S.C. -- 10th Standard	95.00 %

SKILLS

- **Programming languages**: **C, C++, VHDL ,Assembly Language**
- **Protocols**: **I2C, SPI, UART, MODBUS**.
- **Chipsets**: AFE (Analog Front End)-**TDC1000**, Precision Stop Watch-**TDC7200**(Chipset by Texas Instruments) , Embedded Memory Graphics Controller-**SSD1963** , Bluetooth module- **HC05**
- **Tools**: **Visual Basic** for MODBUS MASTER, **Analog Discovery 2 logic analyser** for I2C, UART and SPI Protocol Analysers, **ORCAD** schematic capture for Circuit Schematic Design, **Quartus, Arduinos, MIT app inventor**.
- **IDEs:** Rowley's CrossWorks (**GNU C Compiler**) for **ARM**, Codeblocks, Keil **µVision**, **Arduino** IDE.

WORK EXPERIENCE

Embedded Firmware Intern at "**Fluxion Process Solutions**"   June 2019-July2019

Transit Time Flow Meter (TTFM)
- Water flow measurement based on difference in upstream and downstream Time of Flight of Ultrasonic waves.
- Responsible for Coding of **Flow measurement module**, **MODBUS** framework and required **BIOS functions**.
- Developed interfaces for **ARM7 TDMI** memory **I2C, SPI, UART, MODBUS**.

PROJECTS

Voice Controlled Wheelchair   November 2019
- Robot receiving (via Bluetooth) and carrying out 5 motion commands (Forward, Back, Right, Left, Stop).
- Interfacing **Bluetooth Module with 8051 microcontroller** using **UART**
- Implemented **motor control for DC motor**.
- **Mobile app** for taking user voice input and sending ASCII data to Bluetooth module (MIT app inventor).

8085 instruction set simulator   June 2019
- A simulator taking program bytes as input and executing 8085 instructions. Output can be seen by accessing memory.
- A good **tool** for educational purposes Written in **Simplecpp**.
- Debug facilities supported: **Breakpoints, watchpoints, single-step and trace**.
- Gained knowledge about **Data Structures** in C.

IIT Goa Motorsports   2018–2019
- Designed circuit for **BSPD** (Brake System Plausibility Device) for Electrical vehicle. This circuit was used for sensing hard braking situations using Accelerator and Brake Pedal positions.
- As a part of throttle control team designed **Throttle Pedal Position Sensor**.

Electrical Machines Seminar   April 2019
- Conducted a seminar about working and position of **stepper motor**.
- **Open loop** position control of stepper motor. PWM controlled **H-bridge control**.

EXTRACURRICULARS

- Outdoor Sports-II [CAB(Cricket Athletics Basketball)] Secretary IIT GOA   2018-2019
- Organizing intra-college events such as Chakravyuh(First Sports Fest IIT Goa) ,FLOCK 2018(First Hostel Event IIT Goa), Cric-Verse (First Cricket Event IIT Goa), Liga-Nogometa (First Futsal Event IIT Goa)
- Electronics and Robotics Club core member: Managing small events and equipment   2018-2019

Satyendra
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Objective
Seeking an internship to strive for excellence in the field of Electrical Engineering with proactive approach and dedication. I have keen interest in doing something innovative in this area. I believe that this internship will help me to enhance my understanding and give me an opportunity to work under professional mentors providing expert feedback on my work.

Education
Indian Institute of Technology Goa
Batch of 2017-21 | CPI: 7.98/10.00
- Candidate for Bachelors of Technology, Electrical Engineering from the School of Electrical Sciences, IIT Goa.
- Relevant Coursework: Digital Logic Design, Computer Programming and Utilization, Electronics Devices, Network Theory, Signal and System, Electrical Machines and Power Electronics, Microprocessor, Communication System, Data Analysis, Probability and Random Process.

Ram Sewak Yadav Smarak Inter College, Barabanki, UP
Uttar Pradesh State Board 2014-16 | Score: 92.4%
- Did Intermediate in science stream.

Course Projects & Technical Experience
Microprocessor Lab, IIT Goa: Automated Algae Cleaner Bot for Swimming Pools [Academic Project]
Under the Guidance of Prof. Bidyadhar Subudhi |November 2019
- Built a bot that cleans and removes algae from the bottom surface of swimming pool so as to avoid removal of water for manual cleaning.
- Devices and Technologies used: Arduino Uno, dc motors, motor controller etc.

Automated drone for tracking leakages in ships
Under the guidance of Prof. Bidhan Pramanick|Ongoing
- Building a drone which will track the leakages of oils, chemicals in ship.

Digital System Lab, IIT Goa: Road Safety Solution for Drunken Driving [Academic Project]
Under the Guidance of Prof. Nandkumar Nambath | February-march 2019
- Designed a device for smart locking of the vehicle on the detection of alcohol in breath of driver, and send a message to the car owner's home/respective authority to inform them. Message contains the location of the car.
- Devices and Technologies used: Arduino Uno, GSM&GPS Module, MQ3 sensor, servo motor etc.

IIT Goa Motorsports
Aug 2019- Present
- Core member of Institute Motorsports Team to compete in the national collegiate level competition, Formula Bharat.
- My contribution part is selection of wires for different tractive system, Battery Management System, BSPD, selection of fuse, Brake Pedal Encoder for Formula Bharat Electric Racing Vehicle.

C++ Programming Language Lab, IIT Goa: Tic Tac Toe Game [Academic Project]
Under the Guidance of Prof. Abhiram Ranade, IIT Bombay | September-November 2017
- Developed with coding in C++. I used SimpleCPP library package (IIT Bombay).

Remote Controlled Bot [Non-Academic Project]
September-November 2017
- Designed a remote-controlled bot using Arduino Uno, MIT App Inventor

Work Experience
Summer Internship: Quadrature Phase Voltage Controlled Oscillator (QVCO) for Offset Phase and Frequency Compensation.
Interned under the guidance of Prof. Nandkumar Nambath, IIT Goa | May-June 2019.
- Designed a quadrature phase voltage oscillator for Offset phase and Frequency compensation in various applications. We adjusted the QVCO output amplitude using tunable negative gm cell. Such a QVCO can be very useful as a controller for phase interpolation in clock and data recovery circuits to reduce per lane power consumption.
- Applications such as clock and data recovery (CDR) in high speed serial links, and carrier phase recovery and compensation (CPRC) in communication links require a QVCO whose frequency can be swept from positive to negative through zero. In a digital digitally controlled phase interpolator, the recovered clock will be having more jitters due to finite steps. Whereas, QVCO based architecture helps in reducing the jitter since the phase is continuous.

Skills
Programming Language: C++, Python.
Low Level Programming Language: VHDL, 8085 microprocessor, 8051 microcontrollers, Arduino.
PCB Design and Simulation Software: Cadence, Eagle.
CAD Software: AutoCAD, Solidworks.
Operating System: Linux (Ubuntu, CentOS), Windows.
Miscellaneous: MATLAB, LATEX, MS excel, PowerPoint, MS word.

Extracurriculars & Positions of Responsibilities
Branch Representative:	Electrical Engineering Department, IIT Goa, Academic Year: 2019-20.
Class Representative:	2017 Batch of Electrical Engineering Department, IIT Goa, Academic Year:2019-20.
Student Mentor:	Appointed as student mentor under ISM Program, IIT Goa|2018-till now.
Correspondent - IIT GOA Newsletter:	Have written articles in IIT Goa Newsletter (Gurukul Varta) |2017-2018.
Club Member:	Literary Club, Debate Club IIT Goa.

Mogaveera **Devraj** Manjunath

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LinkedIn / Github

Objective

Being a critical thinker, I intend to deepen and flourish my thought process through the academic structure that persists in IIT GOA. Being a team player and leader, I have experience in team management and leadership. Also, with my curiosity towards how things work. I am confident to bring innovation and improvement in the affiliated organization with my presence of mind and quick learning skills.

Education

Indian Institute of Technology Goa
Batch of 2017-21 | CPI: 7.9/10.00
- Candidate for Bachelors of Technology, Electrical Engineering from the School of Electrical Sciences, IIT Goa.
- Relevant Coursework: Linear Algebra (**AP**), Data Analytics, Signals and Systems, Analog Circuits, Digital Circuits, Microprocessors, Communication Systems, Calculus, EM Waves, Electrical Machines, Power Systems, Electronics Devices, Complex Analysis, Electricity and Magnetism, Quantum Quantum Physics, Relativity.

Pace Junior Science College, Powai
Maharashtra State Board 2014-16 | Score: 75%
- Did Matriculation from Maharashtra HSC in Sciences with Bio-focal in Electrical Maintenance.

Course Projects & Technical Experience

Hand Motion Controlled Robotic Vehicle
November 2019
- Used accelerometer gyroscope sensor (MPU6050) to record the movements of the hand.
- Wrote code in Arduino IDE to receive inputs from sensor to control the motors.

Bluetooth Controlled Home Switch
February-March 2019
- Built a machine when placed on a home switch can modify it to a wireless switch.
- Used a servo motor, ESP8266, HC05 Bluetooth module for the control.

Machines Course Projects
Feb 2019
- Built and verified a DC motor, DC generator and speaker using the Faradays law of electromagnetism.

Work Experience

Research Intern, IIT Goa
Summer Engineering Intern | May-June 2019
- Project 1: Built an ML model that can predict sea urchin fertilisation on the basis of pH variability.
- Project 2(Ongoing): Building an ML model to predict water column properties given certain parameters (CDOM, algal absorption etc).

Technical Team, Motorsports, IIT Goa
Feb-Mar 2018
- Built the LCD display (using GLCD) and the circuit of the Break System Plausibility Device (BSPD) of the electric car.

INICIO Hackathon, IIT Goa
March 2018
- Worked to build a small model car controlled by Arduino UNO.
- Wrote code in Arduino IDE to receive inputs from mobile app via Bluetooth to control the car.
- Used the MIT app inventor to develop Bluetooth app for Arduino.

Extracurriculars & Positions Of Responsibilities

- Member of the **TECHNICAL TEAM** for organising **CHAKRAVYUN 2019** (sports fest of IIT GOA).
- Participated in **Football** for **Inter IIT Sports Fest** (2019).
- Participated in **Football** for **Inter IIT Sports Fest** (2018).
- Participated in **Football** for **BITS GOA Sports Fest** (2018).
- Participated in **Football** for **Inter IIT Sports Fest** (2017).
- Participated in **Football** for **BITS GOA Sports Fest** (2017).
- Participated in various dance and art events of IIT Goa.
- **District Topper** in **Mathematics** in secondary school (10th board).

Skills

Computer Skills: Python, C++, Assembly language, VHDL, Java
Miscellaneous: LaTeX, CAD-AutoCAD and SolidWorks

Saikrishna Chiluveru
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Objective

Being an enthusiastic student and a proved leader, I try be more realistic and live in practical world. I focus more on reasoning rather accepting things. I believe, one must have the capability of denying unwanted things to be successful in life and I truly confined to that.

Education

Indian Institute of Technology Goa
Batch of 2017-2021
- Candidate for Bachelors of Technology, Electrical Engineering from the School of Electrical Sciences, IIT Goa.
- Relevant Coursework: Electronic Devices, Signals Systems, Data Analysis Electric Machines and Power Systems, Digital Systems, Microprocessors, Communication Systems, Electromagnetic Waves, Probability and Random Processes.

SR Junior College, Hanamkonda, Warangal
Telangana State Board 2013-15 | Score: 972/1000

Course Projects & Technical Experience

Microprocessor Lab, IIT Goa [Academic Project]
- Car Over Speeding Detection using Arduino Microcontroller.

Digital Circuits Lab, IIT Goa [Academic Project]
- Motion Detecting Camera using Arduino Microcontroller.

IIT Goa Robocon (ongoing)
- Working on a Bot for Robocon competition in 2020.

Work Experience

Interned at IIT Bombay under Dr. B.G. Fernandez
Summer Engineering Intern | May-June 2019
- Calculation of Magnet Losses in Concentrated-Winding Permanent-Magnet Synchronous Motor using a Computationally Efficient Finite-Element Method.
- Estimation of Eddy-Current losses in Permanent magnet motors using Transient FEA.

Skills

Computer Skills: C++, AutoCAD, Solidworks, MATLAB, Simulink, MS Word, MS Excel, LaTeX, Ansys Maxwell.
Your Department: Microprocessor 8085 and Microcontroller 8051, VHDL, Quartus, Arduino, FEM: Magnetic Software, Ngspice.

Positions & Responsibilities

Events Head: Head of Cultural events management [2019-Present]
CultRang Sponsorship Team: Core Member in Sponsorship team for IIT Goa Cultural Festival [Jan 2018-Present]
CultRang Production Team: : Core Member in Production team of IIT Goa Cultural Festival [Nov 2019 -Present]
Junior Event Manger: Event Manger of IIT Goa Cultural Council [2018-2019]
Quality Standard In-charge: In-charge for quality of food in IIT Goa mess [2018-2019]
Marketing Head: Marketing head of IIT Goa Economics Club [2018-2019]

Extracurriculars and Hobbies

Badminton and Dance