Jeeson K James

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Kannanthara Jim's Bhavan, Kerala, India 📍

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EDUCATION

BTech in Electronics & Communication.
Saintgits college of engineering Pathamuttom
08/2016 - 08/2020   *Kottayam*

Courses
- Analog Communication, Digital Communication, VLSI, Control Systems,OOP
- Electronic Circuits, Signals and System, Embedded Systems, microcontrollers.

Higher secondary
St. Berchmans Higher secondary school
08/2014 - 03/2016   *Kottayam*

Courses
- Computer Science.
- C++, JavaScript, HTML,PHP, Computer Hardware.

PERSONAL PROJECTS

SIFLI(Smart Intravenous Fluid Level Indicator) (2020)
- The aim of the project is to reduce the hassle of nurses by automating the process of periodic checking of the fluid levels of drip.
- Lead a team of 4 and was instrumental in completing SIFLI by designing a new device that could reduce the workload.
- Used and applied microcontrollers, sensors, programming and circuit designing skills to design and develop the product.
- Paper Published in International Research Journal(IRJET).
- Presented in International Conference.(I CASE)

Efficient LoRa GPS Tracker for Dementia Patients (2019)
- To propose a novel energy-efficient, small wristband by integrating the latest LoRa communication and GPS duty cycling technologies. Our model and data show the GPS wristband is able to support up to 40 hours of continuous GPS tracking with a frequent 60 seconds location update rate. Its range also spans 3km, effectively monitoring patient locations.
- Finalist in State level YIP.

Rapid Emergency Distress Signal (2018)
- To better improve the emergency communication and location-based services of disaster information reporting network for a serious natural disaster emergency response and relief, we propose a solution based on LoRaWAN networks, that enables individuals to alert the rescue authorities during the crisis in a highly efficient manner.
- Finalist in Paper presentation competition conducted by NIT Calicut.

Mosquito Magnet (2015)
- The project aims to develop an eco-friendly mosquito eradication system.
- Lead a team of 5 and successfully designed and developed a natural liquid that is an alternative for the chemical liquid we use today, and an improvised mechanism for source termination.
- Finalist in Yuva Master Mind conducted by Malayala Manorama.
- Finalist in Techtop.

Molten Salt Solar Power Plant (2014)
- A power plant that is capable of generating electricity using solar energy, even in the absence of light.
- Lead a team of 2 in state school science fair and presented a still model.
- Got selected to demonstrate the project in Southern Indian Science Fair held in Chennai.
- Presented in State Science fair held in Kannur. and bagged Second prize.

SKILLS AND ABILITIES

Research & Strategy   Troubleshooting
Problem solving   Active Listening
Presentation   Leadership
Team work   IoT   Programming
Embedded System   Verilog   HTML
C++   Java script   Linux OS

ACHIEVEMENTS

5 star coder
HackerRank - 5 star Gold medal in C++

YOUNG INNOVATORS PROGRAM (YIP) (2019)
Tracker for Dementia Patients. State level innovators competition. One of the top ten finalist held in Kannur

Paper Published in International Research Journal(IRJET)
SIFLI(Smart Intravenous Fluid Level Indicator)

Paper Presentation (2018)
Got selected for the finals paper presentation Conducted as a part of NIT Tech Fest.

Technical quiz competition. (2017)
Conceived First prize, Conducted by IEEE saintgits

Techtop. (2015)
National innovation contest for Engineering students held in Thiruvananthapuram.

Yuva MasterMind (2015)
National level innovation competition Finalist.

Southern Indian Science fair. (2014)
All India science competition finalist Conducted by Tamil Nadu Government in Chennai

State science fair. (2013)
Bagged second prize in state level science competition Conducted by Kerala State Government in Kannur

CERTIFICATES

Coursera
Reliable Google Cloud Infrastructure: Design andProcess

Matlab & Ansys - HFSS (2014)

INTERNSHIPS

BSNL (2017)
Basic Telecom (2 weeks). Held in Thriruvananthapuram.

ISRO (2014)
Student program held in connection with world space week celebration by VSSC