



BASIL SAJU

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CAREER OBJECTIVE

To secure a job in the Engineering sector in your organization that could help me learn new skills and deliver my full potential. I will try to seek the necessary skills required for the implementation of the new approach towards the development of the company

EDUCATION

Bachelor of Technology - (2018 Jun - 2022 Jun) | Muthoot Institute Of Technology And Science, Ernakulam | Electrical And Electronics Engineering (Passed with 8.07 CGPA)

Higher Secondary - (2016 May - 2018-Mar) | Vidyadhiraja Vidya Bhavan English Medium H.S, Aluva, Ernakulam | Computer Science. | (Passed with 90%)

Secondary Education - (2015 May - 2016-Mar) | St. Mary's Public School, Thamarachal, Ernakulam | (Passed with 92%)

EXPERIENCE

Assistant system engineer - trainee - (2022 Sep - present) | Tata consultancy services

Quality Assurance team member - Project following Agile method

Expertise in Backend (spring boot)

SKILLS

MICROSOFT OFFICE

BASIC C PROGRAMMING

BASIC JAVA

PROJECT MANAGEMENT

TEAMWORK

AUTOCAD

3DS MAX(3D MODELING)

ARDUINO /ESP MODULE BASED
PROJECTS(Beginner level)

SOFTWARES

AUTOCAD

3DS MAX

MICROSOFT OFFICE

MATLAB



ACCOMPLISHMENTS

- We as a team participated in Reboot Kerala hackathon held at JCET, Palakkad during 28th February-I March 2020, shortlisted to top 15
- We as a team has participated in the YIP (Young Innovators Programme) State level evaluation held on 26th Dec 2019 at SCMS Cochin School of Business Ernakulam, ranked 101
- We as a team secured the second position in MITS innovation challenge 2019-20 organized by IEDC MITS
- Selected to the second round of Imagine Cup conducted by Microsoft Corporation.
- Basic course on PLC S7 I200/S7 I500 V14 CU-PLC - Siemens
- Training Programme on HMI & SCADA (CU-SCA) - Siemens
- EV Hackathon hosted by IEEE-Final shortlisted team
- **Received CERD funding for final year project(Amount Granted: Rs 41,000)**
- Completed **Robotics and automation course initiated by Kerala government** through ASAP-SDPK platform.Exposure towards microcontroller, IOT based projects, programming, Basic 3D Modeling & rendering
 - ❖ We also had done (IoT based medicine dispatcher) as part of sdpc final project including most of the engineering aspects we cover throughout this course

INTERNSHIPS

KEL, MAMALA

The internship helped to familiarize me with the manufacturing of transformers. It was a 5-day internship. Visiting various sections of the Transformer Division such as Winding, Core Building, Core Coil Assembly, Terminal Gear Fixing, Tanking, and Testing gave me an understanding of transformers.

PROJECTS

WATER MANAGER

We as a team developed a system useful for the Kerala water authority to detect leakages in supply pipelines as part of the reboot Kerala hackathon. Real-time data collection, cloud services were used to make the system efficient in monitoring, technologically advanced, and user friendly.

SMART ENERGY MANAGER

We as a team developed a Smart Energy Manager system that continuously monitors the number of people entering and exiting a room and keeps a record of it. Based on this record (viz. updated to the cloud) commands are given to the relay which decides whether to turn on or off the supply

AN EFFICIENT TOTEM-POLE CONVERTER FOR ON-BOARD CHARGING

Electric Vehicles should have a very efficient interconnection between the power grid and the high-voltage battery pack, which comprises AC-DC conversion in the front end and DC-DC converter in the back end. Our proposal is to using totem pole PFC converter reduction of switches to obtain the same output can be realized.

RESEARCH TOPICS

WIDEBAND GAP SEMICONDUCTORS DEVICES AND COMPARISON

WBG devices have a substantially higher breakdown field strength than silicon devices, which is ten times higher. SiC and GaN devices have 350 times lower on-state resistance than Si devices. In terms of thermal conductivity, SiC has the highest, whereas GaN and Si devices have similar values.

PROFESSIONAL ENHANCEMENTS

CERTIFICATE

BUSINESS ENGLISH CERTIFICATE PRELIMINARY COUNCIL OF EUROPE LEVEL B1

AUTOCAD

3DS MAX

COURSES /WORKSHOPS /SEMINARS

- Completed Introduction The Arduino Platform and C Programming
- SIEMENS PLC TRAINING
- Completed Mathworks-Matlab on-ramp (Simulink, simscape)
- Participated in the hands-on program on Electronic Product building Held at MITS

MEMBERSHIPS

- IEEE (STUDENT MEMBER) Jan 2021 – Present
 - IEEE ROBOTICS AND AUTOMATION SOCIETY (STUDENT MEMBER) Jan 2021 – Present
 - SEEM (Society of Energy Engineers & Managers) (STUDENT MEMBER) Mar 2020 – Present
 - ASME (STUDENT MEMBER) Oct 2018 – Oct 2019
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POSITIONS OF RESPONSIBILITY

SECRETARY OF EARC ASSOCIATION MITS (2020 -PRESENT)

SECRETARY OF IEEE RAS (SBC MITS) (2020 -PRESENT)

PLACEMENT CELL DEPARTMENT LEAD(2022 EEE BATCH MITS)

VOLUNTEERING

ORGANISE IDEA PITCHING COMPETITION ENERGION -EARC(Team Lead)

8TH INTERNATIONAL CONFERENCE ON SMART COMPUTING AND COMMUNICATIONS (ICSCC 2021) -STUDENT VOLUNTEER

LANGUAGES

ENGLISH

MALAYALAM

TAMIL -SPEAK ,LISTEN

INTEREST

DRIVING,MUSIC: TRAINED IN CLASSICAL MUSIC ,SKETCHING: DOODLING, DRAWING