BILAL KASSIM

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PROFESSIONAL SUMMARY

Electrical and electronics engineering graduate with more than one year of experience in embedded systems seeking an opportunity to enter into an esteemed organization, to carve out a niche for myself and emerge as a good Professional to mark my excellence while actively contributing to the development of the organization employing my skills

EDUCATION

APJ Abdul Kalam Technological University, India   **07/2017-07/2021**
Bachelor of Technology in Electrical and Electronics Engineering

- CGPA 7.11/10
- Core Modules: Power Generation Transmission & Protection, Power System Analysis, Distributed Generation & Smart-grids, Industrial Instrumentation & Automation, Electrical System Design, Special Electric Machines, Power Electronics, DC Machines & Transformers, Synchronous & Induction Machines.
- Completed additional coursework in Biomedical Instrumentation, Electric and Hybrid Vehicles, Internet of Things, and Sensors & Actuators
- Co-authored a research paper related to multi-purpose unmanned aerial vehicle for different harsh applications and published it in International Journal of Advanced Research in Electrical, Electronics, and Instrumentation Engineering (IJAREEIE), Volume 10, Issue 6, June 2021

Kerala State Board of Higher Secondary Education   **05/2014-05/2016**

- Percentage 88.7/100

WORK EXPERIENCE

Tata Consultancy Services – General Motors   **12/2021 - Present**

Job title: Assistant System Engineer

- Responsible for development, integration, behavioural testing of automotive embedded software accord with AUTOSAR architecture
- Requirement analysis using IBM DOORS
- Worked with MATLAB/Simulink for the development and simulation of the Body Control Module
- Software integration of the Body Control Module ECU and releasing its artifacts to General Motors and flashing the software into the microcontroller
- Key behavioural testing, hand fixes, debugging with Vehicle Spy, GHS Multi
- Exposure to software development life cycle: V model, Agile
- Experience working with IBM Rhapsody, Jenkins, Git Ecosystem, Jira
- Experience in communication protocols like CAN, LIN, I2C
- Experience with ARM Cortex microcontrollers
- Hands on experience in Embedded C, MATLAB scripting
- Documentation and analytic briefing using MS Office and presenting it to fellow engineers, leads, project managers

Kerala State Electricity Board Ltd, Kerala, India   **06/2019 - 07/2019**

Trainee Engineer (Internship)

- Worked in 110 KV Substation as a trainee engineer

- Achieved industrial exposure to designing and analysing electrical system layout, load analysis of different feeders, switching of feeders and tapping of transformers
- Analysed and understood solar energy's importance in consumer-level energy management

PROJECTS

- **Multi-Purpose Unmanned Aerial Vehicle**: Project revolves around drones which helps in automatic high altitude painting improving safety and reducing the time of painting workers, to reduce smog in the environment
- **Home Automation**: Control different equipment like fans, lights, agricultural irrigation system automatically using embedded systems

ADDITIONAL COURSES TAKEN

- **Crash Course on Python**: An online course authorised by University of Buffalo and The State University of New York offered through Coursera
- **Python Quick Start**: LinkedIn
- **Certificate course on C programming:** Course conducted by G-tec Computer Education
- **Specialization in Internet of Things and Embedded systems:** An online course authorised by University of California; Irvine offered through Coursera
- **MATLAB Onramp:** MathWorks Training Services
- **Machine Learning Onramp:** MathWorks Training Services
- **Learning Java:** LinkedIn

SKILLS AND INTEREST

- Technical Skills : MATLAB/Simulink, Electrical system design, MS Office, C, Python
- Languages : English (Fluent), Hindi (Fluent), Malayalam (Native), Arabic (Basics), German (Basics)
- Personal Skills : Multitasking, Effective Intelligence, Organizing Ability, Sense of Responsibility, Social adaptability and Quick Learner
- Interest : Travelling, Football, Cooking and Driving

EXTRA CURRICULAR

- Logistics Head in national level inter-college technical fest called **TAKSHAK'19**, prepared budget, provided electrical and sound systems and supervised delegation of responsibilities
- Represented school in Kerala state level school athletics meet
- **SPARSHAM**: Organised mini marathon for disabled peoples under national level inter-college art fest called **SANSKRITI'20**

VOLUNTEERING

- Institute of Electrical and Electronics Engineers (**IEEE**) active member
- National Service Scheme (**NSS**): As an active member provides an opportunity to work for the social welfare of students and served 2018 flood affected regions of Kerala
- National Cadet Corps (**NCC**)