Jaikrishnan Jaisankar

Team Member , Research and Development, SunMobility ·

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"BREAK. LEARN. EXPLORE. CREATE. INNOVATE. EVOLVE. ITERATE."

Summary

My love to understand things in deeper levels always ended up the same way, tearing down things. Initially I struggled to fix it back. Like any engineer, my life also started with reverse-engineering. Physics classes and Internet Evolved me, fixing things back became easier. I started to modify things ranging from toys to Motorcycles. Things around me evolved, I started learning , I started iterating , building.I started exploring new things to do.The passion for going Fast got me to Motorcycles.I started modifying my 2-stroke bike for better performance and reliability.I wanted to push the limits.Engineering as a professional course helped me to get my roots deeper.After that i had clear idea to make all my moves carefully ranging from Final year projects to Internship at Keltron to International Internship at Germany funded by DAAD. My first Job is is closely connected to Electric vehicle ecosystem, India's First Swappable Battery and SWAP Station.I'm Still Learning.

Work Experience

SunMobility Pvt Limited

Bengaluru, India

Team Member - Research and Development

Sep. 2017 - PRESENT

- Part of R and D team for India's first Battery Swap Station.
- Contributed in Hardware and Software for the Swap-station.
- Contributed in System Architecture and design.
- Have created data pipelines,parsers,remote access solutions,Data logging devices
- Full ownership for Safety System for Battery Swap station
- Actively contributed to all stages including POC, ALPHA, BETA and the First Production Version

Skills and Competencies

Hardware

- Excel in Product Development and PDLC
- Worked on I2C,SPI,UART,USB,CAN(J1939 and GB/t),TCP/IP,Bluetooth(BT4.2, BT5.0,BLE),WIFI,RS232,RS485
- Worked on System Requirements, Design and Architecture
- Have created Failure Diagrams and Done Failure analysis
- Experience with Safety system design
- Experience with CANoE , RS485oE
- Experience with 5WHY and 8D problem-solving/RCA techniques
- Have worked on HVDC/LVDC/AC systems
- Experiance in Modelling complex systems in SysML
- Rapid prototyping for proof of concepts using microcontrollers , microprocessors and development boards
- Have created failure prediction models

Software

- Programming Languages : Python , C
- Good understanding of networking concepts,APIs
- Worked TCP,UDP,VNC,shell-scripts
- Have created highly efficient pipeline for data collection , parsing and analysis
- Have created highly efficient and scalable remote system access pipeline(LINUX) for distributed systems
- Good understanding about Linux systems
- Have used docker
- Have used ElasticSearch,Logstash,Kibana,KAFKA
- Have worked on IOT and Edge computing systems
- Worked on microcontroller and PLC programming

Achievements

International

2016 **Fully Funded Internship by DAAD-Germany,** at Bosch and ABB *Germany*

Domestic

2015	**Winner,** NASSCOM STARTUP 20-20 2015	*India*
2016	**Student Partner of the Year,** Microsoft	*Kerala, India*
2016	**Best Campus Ambassador,** Dell	*Kerala, India*

Education

MG University(Adi Shankara Institute of Engineering and Technology) *Kerala, India*

B.Tech in Electronics and Communication Engineering *May. 2013 - Jul. 2017*

- CTO , Startup Incubator funded my KSUM
- Member , IEEE
- Student Ambassador , Dell
- Student Ambassador , Microsoft
- Project , Electric bike with Dual-wheel drive using Hub-Motor
- Seminar on Sub-1Ghz Communication