

PRATAP YENUBARI ,

India, +91 9008112337,+919505669641

pratap.sost.iiit@gmail.com , pratapyenubari01@gmail.com , www.linkedin.com/in/pratap-yenubari-49b162302

Embedded software developer with around 10 years of experience in designing and developing complex and scalable systems for UAV based hydrogen fuel cells ,fire alarm systems,brain image scanning and structural health monitoring of buildings

SKILLS

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| • Programming Languages: | C & Data structures, Embedded C,Python |
| • Processors & Controllers: | Cortex-M4, MSP430,STM32 |
| • Embedded Communication Protocols: | SPI, I2C, Clip,UART device drivers |
| • Wireless Standards & Protocol Stacks: | IEEE802.15.4, ZigBee,SWIFT from Honeywell |
| • Workbench, IDE: | Keil,IAR Embedded workbench, DevC++,PyCharm |
| • Agile methodologies/Version Control: | JIRA, Sprints, SVN,Redmine,Scrum |
| • Debuggers: | FETpro430,ULink2 |
| • Static code analysis | PC-Lint |
| • Bare metal ,Free RTOS | |

EXPERIENCE

Principal Software engineer,Intelligent Energy,UK

Oct2023 – July2024

- Designed and developed different software modules such as leak test ,auto re-condition, Customer logs, tanks enablement ,etc for the the UAV based Hydrogen fuel systems
- Addressed customer field issue w.r.t SD card corruption

Technologies used: C language,Keil microvision5,UART,Python

Senior Technical Lead ,KPIT, India

Oct 2022 – Mar2023

- Developed the SPI and I2C communications between the sensors,memory and controller to efficiently fetch the data
- Interacted with the USA based GM team on the project

Technologies used : Embedded C,SPI,I2C,Keil microvision

Consultant/Professional-II ,Capgemini, India

Mar 2022 – Jul 2022

- Developed the SPI path for data transfer between the transceiver and the main controller using polling mechanism for Brain scanning device(Emtensor project).
- Lead the team for the software development from India and interacted with the USA team

Technologies used: Embedded C ,SPI,Keil,UART

Senior Engineer/Embedded Engineer -II,Honeywell Technologies,India

Nov2016-Nov2021

- Developed the wireless communication between devices and gateway, connection establishment, data transmission ,device configurations,board bringup ,configuring the microcontroller which reduced the cycle time by 25%.
- Based on urgent client requirement , designed and implemented in one week the anti– tampering mechanism for the devices which is based on beacon timing functionality for fire safety.
- Worked as a cybersecurity advocate
- Interacted with the teams in the USA and Australia for project work.

Technologies used: C language, msp430,SPI,SWIFT, IAR Embedded workbench,PWM,UART

Senior Software Engineer ,Procubed Technology Solutions, India

Feb 2016 –Jul 2016

- Developed and tested the IEEE802.15.4 standard based STAR network for wireless data transfer for Home buildings

Technologies used: C language,SPI,IEEE 802.15.4, IAR Embedded workbench

Senior Project Fellow ,CSIR-Central Electronics Engineering Reasearch Institute, India

Jun 2013 -Dec 2015

- Developed the channel access mechanisms, data transmission and scanning methods.
- Worked on the board bring up,microcontroller configurations,SPI paths between the microcontroller and the transceiver
- Guided Phd and Masters students in their thesis

Technologies used:C language,msp430,SPI,ZigBee,IEEE 802.15.4,IAR Embedded workbench,UART

EDUCATION

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| • Masters in Advanced Information Technology: | International Institute of Information Technology(I2IT),Pune,India |
| • Bachelor of Engineering in Computer Science: | PDIT,VTU,India |

CERTIFICATES & AWARDS

- Six sigma green belt
- Safe Agilist 4.5
- Honeywell Bronze medal for cyber security

PUBLICATIONS

- 5 research papers in peer reviewed international conferences