Jyotsna Jha

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Summary

Dover India Pvt. Ltd. (DIIC) - Software Engineer

Currently working as Software Engineer at Dover India Pvt. Ltd. since September 2014.
I work on microcontroller based product development for providing real-time solutions.
Responsible for devising intuitive mechanisms to ensure effective constant time results.
Design and implementation of several solutions for third party clients.
Point of contact for bug escalations.
Excellent in interrupt handling and RTOS programming.
Good with debugging techniques.

Experience

Software Engineer at Dover India Pvt. Ltd. (DIIC)
September 2014 - Present (2 years)

Conceptualization and development of microcontroller-based products and solutions.

Intern at BSNL
June 2011 - July 2011 (2 months)

Trainee at Vishakhapatnam Steel Plant
June 2012 - July 2012 (2 months)

Education

C-DAC, KP, Bangalore
February 2014 - August 2014

PG-DESD (Post graduate Diploma in embedded system design)

Bengal College of Engineering and Technology, Durgapur
June 2009 - June 2013

B. Tech. (Electronics and Communication) DGPA: 8.19

Dhanbad Public School

CBSE 12th	77%	May, 2009
CBSE 10th	90.4%	May, 2007

Skills & Expertise

Operating systems	Linux and RTOS(MQX)
Programming language	C, C++, Data Structure in C,Assembly Language
Microcontroller	AVR, ARM7 and Kinetis(K70)
Compiler	IAR Embedded Workbench , Code Warrior, MPLABX IDE ,Eclipse, Code composure studio
Drivers and Communication protocol	UART , SPI , I2C , CAN
Debugging Tools	I-jet, PE Micro, PICKIT 3

Projects

Emulation for Datamax Printers
Client: Datamax Printers
Technology: C, SVN, Datamax printer languages (zebra, eltron, intermec)
Compilers: Eclipse

Datamax printers usually worked on the barcode generation. I was responsible for the development and maintenance of Datamax project. Also was responsible for reviewing all code changes done to ensure effective build and proper testing.

Neptune Stroke Controller
Client: Neptune Pumps
Technology: C
Compilers: MPLABX IDE

I was responsible for the design and implementation of EEPROM and Flash with help of MPLABX IDE. Worked on generation of Product Specifications, Technical Specifications and Code Developer's Guidelines for Neptune Stroke controller. Developed stroke motor for Neptune pumps using MPLAB Harmony.

HEIL Connected truck
Client:HEIL
Technology: Cloud, 4G, AT commands
Compilers: IAR Workbench

Heil is the industry leader in mobile refuse collection vehicle design and specialized refuse body manufacturing. Heil connected Truck project was basically collecting all the data from the truck and store it in the cloud.I was responsible for the design of GPS Module, Communication Protocol Format for GPRS (2G/3G), USB (2.0/3.0) communication Specification and Communication Protocol Format for LTE (4G) module. Implemented MQTT protocol and designed Cloud Client Module. Designed and implemented Message Data which pushes data to the cloud server for processing.

ASSET MANAGER

Client: CIVACON

Technology: Wi-Fi, cloud

Compilers : Code composure studio, Eclipse, CCS Uniflash

Presently working on Wifi module (CC3100) protocol and connectivity related to wifi. This project is basically on the connection of wifi module with cloud so that the data can be well managed. Working the TCP/IP stack and interface, J1939, HTTP/HTTPS.

Certification

Microchip Master's Conference 2015 at Bangalore

Personal Skills

- Good and dependable Team player.
- Quick learner with eye for details.
- Reliable, persistent by keeping a positive outlook and doesn't let unexpected problems stop me from successfully completing my work
- Cool and Calm under pressure
- Ability to work effectively locally & globally with others within & outside of team.

Interests

Craft work, writing short stories and poetry, listening to music.