DATTATRAY BHAIRI

Embedded Software Engineer

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ABOUT ME

I am an Embedded Engineer with keen interests in IoT systems, Robotics and mechatronics.

I am a hands-on engineer who loves prototyping, testing and developing various ideas and transform them to products.

INTERESTS

Consumer Electronics
Robotics
Analog Electronics
Mechatronics

HOBBIES

Photography
Music
Movies
Tech News
Travel

LANGUAGES

English (R,W,S)
Marathi (R,W,S)
Kannada (S)
Hindi (R,W,S)
Telugu (S)

PRODUCTS

Social Distancing Personnel Tag
Asset Tracking Tag
Environment Sensing Tag
Realtime Location and Tracking

PROJECTS

FDM 3D Printer using e-waste
- Built an FDM 3D Printer using parts sourced from abandoned dot-matrix printers. Responsible for the Design and development of motor control and thermal systems. Also, was responsible for the algorithm and system flow.

- Wireless controlled 3D printed robotic arm

- Smartwatch from old phones with fitness features

WORK EXPERIENCE

Vacus Tech Pvt Ltd., Bangalore
Embedded Software Engineer
07/2019 - Present

Responsible for integrating various embedded devices and software systems for Indoor Location and Tracking devices. I am also responsible for the prototyping and testing from concept to product stages.

Other responsibilities:
- Wrote Firmware for CC25XX/CC26XX SOC's, and Tested using IAR & CCS embedded tool.
- Design and Development of RF network using ISM and Sub-1GHz Bands, BLE.
- Working on Intel UP and UP Squared Boards.

Projects: Social Distancing Tags, Contact Tracing Projects, Realtime tracking projects

Akruti Technologies, Pune - (1 year)
Embedded Engineer
11/2017 - 12/2018

Responsible for building small-scale wireless data acquisition IoT products for preventive maintenance devices in Industry.
Worked on embedded projects based on 8051 ASM, C, PIC, ATMega.
Designed and developed transformer-less power supply for low-power IoT devices.

CircuitBoard.in, Solapur - (2 years)
Founder
02/2015 - 05/2017

Worked on various DIY projects, conducted workshops to college-going students under "CircuitBoard".

EDUCATION

Solapur University
Bachelor of Engineering in ECE
2014 - 2017

A.G. Patil Polytechnic
Diploma in ECE
2012 - 2014

Dayanand College of Arts and Science
Pre-University, Science
2010 - 2012

J.P. School, Solapur
School
2000 - 2010

SKILLS

Prototyping, Quick learner, Team worker, Embedded C, CPP, RTOS, IoT Concepts, Linux, ARM, 8051, RF Devices, GIT version control

Hardware Platforms
Raspberry-Pi, TI CC25XX, TI CC26XX, TI CC11XX, ESP8266, ESPWROOM32, Arduino IDE, Intel Up-Squared single board computer, Quectel SC20 Android Platform

Software Platforms
IAR Embedded Workbench, Code Composer Studio, Keil Vision.

Communication
UART, SPI, I2C, 1-wire, MQTT, LORA-WAN, mmWave