

Vishwas Navada B

Hardware Design Engineer

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Full stack hardware engineer who can build a product from scratch to solve real-world problems. I love building stuff with electronics which requires hardware, programming and product designing skills. For further details about my work, please visit: <https://vishwasnavada.github.io>

WORK EXPERIENCE

Research Assistant

Robert Bosch Centre For Cyber-Physical Systems, IISc, Bangalore

04/2018 – Present

Bengaluru

Inter Disciplinary Department of IISc working on recent and upcoming technologies.

Achievements/Tasks

- Built UWB beacon systems for Autonomous Navigation of Drones.
- Working on autonomous charging pads for drones.
- Designing Actuation and control of SMA based soft grippers.

Embedded Systems Design Engineer

Openwater.in, IISc, Bengaluru

03/2017 – 04/2018

Bengaluru

A clean tech spin-off startup from Flexible Electronics Lab of Indian Institute of Science, Bengaluru.

Achievements/Tasks

- Worked on the design and development of Electronic systems for water filtration unit
- Designed customized power supply to drive the whole system
- Designed and tested wireless water flow meters

EDUCATION

Bachelor of Engineering in Electronics and Instrumentation

Bangalore Institute of Technology (VTU), Bengaluru

08/2013 – 06/2017

71.35

Courses

- Analog Electronics, Digital Electronics, Process Instrumentation, Robotics and Control
- Final Year Project- Simultaneous localization and mapping using a Kinect in an indoor environment

XII

Viveka Pre-University College, Kota, Udupi

06/2011 – 05/2013

89.50

Courses

- Physics, Chemistry, Maths, Electronics

SKILLS

Embedded C

C++

Python

RTOS

Circuit Design

3D Printing

Eagle CAD

PCB Designing

CAD

MatLab

LabVIEW

PERSONAL PROJECTS

IEncode Intelligent Encoder for Industrial Motors (08/2018 – 09/2018)

- Predictive maintenance of Industrial motors using Infineon's high precision 3D magnetic sensor TLE-493D

SewerSway (09/2018 – Present)

- Predictive maintenance of manholes and water systems using IoT and sensors

DriX (10/2016 – Present)

- Advanced Driver Assistance System

AgroSquad, Umwelt, TicTacToe Robot, UAVs (01/2016 – 04/2018)

ACHIEVEMENTS

Hardware Hackathons (04/2015 – Present)

1st @ Reimagine Waste, IISc, 1st @ Infineon hackathon, 1st @ ABB Makeathon, 1st @ CeBIT IoT Hackathon, 3rd @ MediaTek Global IoT challenge, Best Geek Group @ Mercedes Benz Hack.Bangalore

Robo Racing (01/2016 – 05/2016)

1st @ Pravega, IISc, Aathmatrish, PESU, NMITEsts.

Wrote an article about LoRa in Devopedia.org (06/2018 – 06/2018)

www.devopedia.org/lora

Quizzes and other competitions (05/2016 – 06/2017)

2nd @ BrainBox Quizzing, 2nd @TCS Tech Bytes, 1st @ Wright Brothers, Semifinalist International Ericsson Awards

INTERESTS

Analog Circuits

EDA

Product Design

Robotics

Mixed Signal Design

Embedded Systems