


Siddhartha B

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Education

2014 - 2016

KLS Shri Vasantao Potdar Polytechnic

- Board- Department of Technical Education Karnataka
- Result-

SEM 1 - 80%

SEM 2 - 87%

SEM 3 - 83%

SEM 4 - 82.8%

SEM 5 - 90.22%

SEM 6 - 90%

2016 - 2019

R. V. College of Engineering

- Autonomous Institution affiliated to Visvesvaraya Technological University, Belagavi
- Approved By AICTE, New Delhi, Accredited By NBA, New Delhi
- Result - 7 CGPA

Conferences

2016

2nd International Conference on Large Area Flexible Microelectronics

Experience

2018-03 - present

Team Lead

College Consultancy Project

- Working on a Project for Kenna Metal Industries
- Main Aim is to Enable IIOT For their shop Floor

2018-02 - present

Technical Intern

Sasvat omnicare

- Building their Business Website and B2B E-Commerce solution

Publications

2016-12 An Electronic Smart Jacket for the Navigation of Visually Impaired Society. Materials Today: Proceedings - Journal - Elsevier

2018-09 Condition Monitoring Of Cutting Tool Using Machine Learning Technique. Accepted and to be Indexed in Industrial Internet of Things and Smart Manufacturing Springer

2018-08 Analysis of hot rolling process using data mining technique- Accepted and to be Indexed in IEEE Explore

Projects

2014-05 - 2014-03

Bluetooth Speakers

- Learnt how bluetooth works and to interface with speakers
- Link- <https://www.youtube.com/watch?v=GJulxBuCbbw>
- Outcome: Successfully built Bluetooth speakers without any extra components.

2016-08 - 2016-09

Home Automation

- Learnt to Program ARM Based Development
- Connected Domestic Appliances to Internet using IOT
- Outcome : Reduced Energy Consumption
- Featured in LEAD Foundation - <https://www.youtube.com/watch?v=gwzcO1xuc0k>
- Link- <https://www.youtube.com/watch?v=GJulxBuCbbw>

Skills

Programming Skills - C, C++, Javascript, PHP, VHDL, HTML, CSS, Python, SQL



Hardware Prototyping Skills- Embedded Systems, ARM, Microcontrollers



Management Skills



Interests

Machine Learning

IOT

Blockchain

IIOT

AR/VR

2015 - 2017

Smart Jacket

- Invented a Smart Jacket for Visually Impaired
- Tracks Health Parameters and gives Audio and Mechanical feedback based on the Surrounding Environment
- Researched on type of Sensors to be used and placement of the sensors to get best possible readings
- The prototype was built and tested in Real life conditions
- The Project was awarded as Outstanding Projects (Overall) and Won 1st Prize in EC Category
- Paper has been published (Accepted and is in Production by Elsevier)

2016 - 2016

TV AmbiLights and Screen Mirroring

- Added Smart TV Features to a Non-Smart TV
- Added Features like Ambilight and Screen Mirroring
- Learnt How Data is transmitted, encoded and decoded from Mobile phone to TV
- Link - <https://www.youtube.com/watch?v=K0i7xVnXVC0>

2016-01 - 2016

Drone

- Learnt about drones: Sensors used, Calibration, and Control system
- Programmed and wrote algorithms for Autonomous flights
- Built the drone for agricultural Application
- The project was selected and Partially Funded by LEAD Foundation, Hubli
- Link- <https://www.youtube.com/watch?v=o--cZK0zUxk>

2016-11 - 2016-12

Power Bank made of Damages Laptop Battery

- Learnt about laptop battery: What it is made up of and How it works
- Learnt about lithium-ion Batteries
- Built a charging circuitry for batteries and Mobile charger
- Link- <https://www.youtube.com/watch?v=QixNiGLGkjo>

2017-03 - 2017-04

IOT based Solar Powered Inverter

- Built a solar powered UPS
- Uses IOT to Update the remaining battery capacity to Cloud
- Learnt to Gather, Upload and Visualise data using cloud
- Webpage - <http://energy.bsid.io>
- Link - <https://www.youtube.com/watch?v=8r6D-OBZwqE>

2017-07 - 2017-08

Robotic Arm

- Built a Robotic Arm controlled by a ARM Based development board and a Microcontroller
- Learnt Image processing
- Used it to Take action based on the Images displayed on the screen

2017-09 - 2017-11

Sound Processing and Visualisation

- Learnt how to Process sound in realtime
- Made an algorithm to convert Sound Frequencies to be displayed as Different colour of Lights
- Link - <https://www.youtube.com/watch?v=LXyipKAUpEs>

2018-01 - 2018-01

Project Alexa

- Built a virtual Assistant using Raspberry Pi 3
- Learnt how an API works
- Trained it to control Volumes and Lights of the room
- Link - <https://www.youtube.com/watch?v=mSTAEfD8b7A>

2017-03 - 2017-05

CR Android APP for my Class

- Learnt how to build Android apps
- Used Wordpress as Backend for Data
- Used it to send Notifications and Share notes with my Classmates
- The App has rating of 5 Stars
- Link - <https://play.google.com/store/apps/details?id=com.bsiddhartha.rvce>

2016 - present

MSIBGM.org

- Designed and Built Web-app for Mathematical Sciences Institute

2017 - present

Web Server

- Built and Maintain an Internet Webserver at home
- The Server is built using Raspberry Pi 3
- Learnt how web server works and Optimised it for faster Page loading

2017-08 - present

NotesHunt.com

- Built an E-Commerce platform for Students to buy and Sell notes
- Has more than 1 Million Views till date
- Learnt how to make web apps and interface with Payment gateways
- Link - <https://noteshunt.com/>

2017

Solar Bag

- Built a Phone recharger Powered by Solar
- Awarded First Prize at a Nation Level Competition held in PESIT, Bangalore

2017-06 - 2017-07

College Ranking Website

- Learnt to build apps using SQL and execute complex SQL Queries
- Link - <https://rank.bsid.io/>

2017 - present

speed.bsid.io

- Built a Web App to check internet Speed and Latency
- Link - speed.bsid.io

2017 - present

Fuel Prices Android APP

- Developed an Android app to get the latest Fuel Prices in India
- Learnt how to use API
- Backend Ruby in Rails
- Link <https://play.google.com/store/apps/details?id=fuel.bsid.io.petrolprice>
- Link- fuel.bsid.io

2018-03 - present

Public DNS Server

- Built a Public DNS with Ad and Tracker Blocker
- The DNS Server has in built mitigations for DNS Amplification Attacks
- The Server is Hosted in a Raspberry pi at Home
- Link- <http://106.51.116.105/admin/>

2018 - present

URL Shortner for College

- Built an URL Shortner for college Clubs and Events
- Learnt to use SQL Database for a Complex Solution
- Link - <https://rvce.me/#rvceurl>



Languages

English

Kannada

Hindi

Marathi

From this internship, I anticipate to get a deeper insight about the company, from a holistic perspective. Also, give my 100% in applying the knowledge gained as an EC engineer , that would benefit the organisation.