Soofiyan Atar

soofiyan.a@somaiya.edu | +918425932900

EDUCATION

K.J. SOMAIYA COLLEGE OF ENGINEERING
BTech in Electronics and telecommunication
Expected May 2020 | Mumbai, India | CGPA:8.17/10

SWAMI VIVEKANAND JUNIOR COLLEGE - H.S.C.
Percentage - 86% | March 2016 | Mumbai, India

SWAMI VIVEKANAND HIGH SCHOOL - S.S.C.
Percentage - 88.6%| April 2014 | Mumbai, India

LINKS

Github: github.com/Soofiyan
LinkedIn: linkedin.com/in/soofiyan-atar-93227a131

ONLINE COURSES

- **Coursera-**Machine Learning on MATLAB
- **Coursera-**Deep learning using Python programming language
- **Coursera-**Robotics: Aerial Robotics by University of Pennsylvania
- **Coursera-**Algorithmic Toolbox by University of California San Diego
- **edX-**Autonomous Mobile Robot course by ETH Zurich university
- **Udemy-**Mastering Microcontroller with Embedded Driver Development
- **Udacity-**Computer vision
- **Udacity-**Computational photography
- **Udacity-**Artificial intelligence for Robotics

SKILLS

COMPUTER SKILLS
•C •Embedded C •Matlab •MySQL •Python •C++ •CSS •Javascript •HTML •ROS •OpenCV • Git •Tensorflow •Keras

EMBEDDED SKILLS
•Arduino •AVR MCU •ARM MCU •Raspberry pi •Quectel MC60 MCU

OTHER TECHNICAL SKILLS
•Machine learning •Deep learning •Perception •Control systems •Mobile Robotics •Aerial Robotics

EXPERIENCE

TEAM KJSCE ROBOCON | Firmware EngineerTeam Member
June 2017 – June 2019

- ABU Robocon is an international Asia pacific competition and I participated at national level competition twice. In both the years we were given different challenges and I was the firmware coder in the team.

FACLON LABS | Firmware Engineering Intern
May 2019 – July 2019 | Mumbai, India

- Worked on the Quectel MC60 microcontroller to send data over MQTT protocol on the arrival of specific messages on the controller.
- Worked on PT100 temperature sensor and posted the data from mc60 microcontroller using TCP protocol.
- Worked on the E-Riksha charging station where the data was display on LCD and received data from the servers using TCP protocol.

E-YANTRA COMPETITION | Bagged 3rd rank all over india
Sept 2018 - March 2019 | IIT Bombay

- 3rd rank holder amongst 12,681 students in the theme nutty squirrel where A* algorithm was implmented along with line following algorithm using PID feedback controller.

ATOS | Data analyst Engineering Intern
July 2019 – August 2019 | Mumbai, India

- Wind turbines blades having various defects were detected using a drone and using deep learning techniques faster RCNN.

IN-HOUSE E-YANTRA INTERNSHIP | Firmware Engineering Intern
July 2018 – August 2018 | K.J. Somaiya College of engineering

- I2C protocol implemented for IMU on AVR microcontroller and also implemented on the firebird bot.

VIRTUAL LABS | 5 day workshop for the development of virtual labs
Jan 2019 | Aurangabad, India

- Virtual labs, 5 day workshop was held by IIT Bombay at MIT College of engineering, Aurangabad.In this workshop I implemented a lab which was hosted on the virtual labs website.

RESEARCH

IEEE 5TH INTERNATIONAL CONFERENCE FOR CONVERGENCE IN TECHNOLOGY,2019 | Photo transistor array with SPI communication for Robot Sensing
March 2019 | Pune, India

PROJECTS

- **4 legged quadrapuled robot -** 4 legged robot with penumatic actuators for the locomotion which makes 2D locomotion with very less computation expensive.
- **Autnomous 3 wheeled robot -** Autnomous robot which traverse a specific path autonomously using drive encoders and Inertial Measurement Unit(IMU) also used SIFT for location matching.
- **Manual 4 wheeled robot -** Manual robot with 4 wheel holonmous drive system which was controller by a PS2 controller and many more functions was also controlled by the ps2 for a particular task.
- **Cervical trainer -** This device was used to do head and neck exercises particularly for physiotherapists and using wifi we can also train the user remotely.
- **Smart shoes -** Shoes which can act as a pedometer and also had self lacing capabilities with reverse charging function.
- **Hand sign numbers recognition for gesture controlled bot -** Hand signs was trained using neural network and using numbers we gave the direction for the bot.

AWARDS

2019	AIR 5	ABU Robocon national level competition(amongst 130 teams) held by IIT Delhi
2019	3rd rank	E-yantra compeition(amongst 12,681 students) held by IIT Bombay
2018	AIR 30	ABU Robocon national level competition(amongst 120 teams) held by MIT Pune
2018	1st rank	Find-a-way fade away competition held in Abhiyantriki(K.J. Somaiya college of engineering)

DECLARATION

- I declare that all the details in this document are true and a valid proof of the same will be made avaialable if required