Soham Bhave

PERSONAL
INFORMATION

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Maharashtra

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OBJECTIVE

Seeking an internship at a reputed organization which provides an opportunity to enhance my skills and challenge my abilities.

EDUCATION

Degree	College	University	Passing Year	Pass Percentage
B.E E&TC	MMCOE,Pune	SPPU	2020	8.39(TE Sem-1)

PROJECTS

1. Robocon 2018

   - Worked with college's Robocon team to design and manufacture robots.
   - Primarily involved in path planning and odometry for an autonomous robot.
   - Worked with a variety of sensors(Ultrasonic, IMU, Infrared, Rotary Encoders) and actuators(DC Motors,linear pneumatic actuators)
   - Programmed Microcontrollers (Atmega 16,Atmega 128,LPC 2148 ,Arduino) in Embedded C

2. Wrist mounted health monitor

   - Built a wrist mounted system which could measure heart rate, body temperature and detect a person fallling over.
   - It communicates this information over the internet via Blynk server to the concerned.
   - Worked with NodeMCU, Optical heart rate sensor, temperature sensor, OLED display
   - Designed a PCB for the system

3. Home Automation system to save Electricity

   - Designed and developed a system which detected and counted the number of people in a room using ultrasonic sensors and the presence of light using an LDR.
   - Replaced the ordinary two way switches by relays.
   - Using the data switched the tubelight and the fan by using an Arduino microcontroller

4. Robotics Specialization on Coursera

   - Implemented various simulation projects while completing courses under a Robotics specialization on Coursera.
   - Specialization included courses on – Aerial Robotics, Robotic Motion Planning, Robotic Perception and Robotic Mobility by the University of Pennsylvania.
   - Simulations include :
     - 3D control(using PID) and trajectory planning of a quadrotor
     - Path planning algorithms
     - 3D projection and pose estimation from visual data.

TRAINING AND INTERNSHIPS	• Intern at Grind Master Machines, Aurangabad (15th December 2018 – 17th January 2019)

- Developed a machine learning algorithm to determine the touch time for superfinishing/ micro-finishing processes based on the input roughness parameters of the job to achieve desired target roughness parameters.
- Collected the data for implementing machine learning algorithm by processing jobs and then measuring their roughness parameters
- Implemented linear regression on the data to predict the expected touch time using Excel Macros.
- Evaluated the performance of the model on actual jobs for different processes.

RESEARCH PUBLICATION

- None

TECHNICAL SKILLS

- Programming languages :
  - C, C++
  - Python, Java
- Operating systems :
  - Windows
  - Linux
- Softwares :
  - MS Office, Matlab
  - Circuit Design : Proteus, Multisim
- Circuit designing, PCB designing, Soldering

SOFT SKILLS

1. Verbal and non-verbal communication
2. Teamwork
3. Problem-solving skills
4. Work Ethic

EXTRA CURRICULAR ACTIVITIES

- Sports like football, cricket and badminton