

# Soham Bhave

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## PERSONAL INFORMATION

Flat no. 3,Pratibha A,  
Kundan-Park, Karve-Nagar  
Pune(411052),  
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 falling 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	<ul style="list-style-type: none"> <li>• Intern at Grind Master Machines, Aurangabad (15th December 2018 – 17th January 2019) <ul style="list-style-type: none"> <li>– 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.</li> <li>– Collected the data for implementing machine learning algorithm by processing jobs and then measuring their roughness parameters</li> <li>– Implemented linear regression on the data to predict the expected touch time using Excel Macros.</li> <li>– Evaluated the performance of the model on actual jobs for different processes.</li> </ul> </li> </ul>
RESEARCH PUBLICATION	<ul style="list-style-type: none"> <li>• None</li> </ul>
TECHNICAL SKILLS	<ul style="list-style-type: none"> <li>• Programming languages : <ul style="list-style-type: none"> <li>– C, C++</li> <li>– Python, Java</li> </ul> </li> <li>• Operating systems : <ul style="list-style-type: none"> <li>– Windows</li> <li>– Linux</li> </ul> </li> <li>• Softwares : <ul style="list-style-type: none"> <li>– MS Office, Matlab</li> <li>– Circuit Design : Proteus, Multisim</li> </ul> </li> <li>• Circuit designing, PCB designing, Soldering</li> </ul>
SOFT SKILLS	<ol style="list-style-type: none"> <li>1. Verbal and non-verbal communication</li> <li>2. Teamwork</li> <li>3. Problem-solving skills</li> <li>4. Work Ethic</li> </ol>
EXTRA CURRICULAR ACTIVITIES	<ul style="list-style-type: none"> <li>• Sports like football, cricket and badminton</li> </ul>
CO-CURRICULAR ACTIVITIES	<ol style="list-style-type: none"> <li>1. Participant in Robocon 2018</li> <li>2. Participant in E-YRC 2017</li> </ol>
PERSONAL DETAILS	<ul style="list-style-type: none"> <li>• Father's Name: Nikhil.M.Bhave</li> <li>• Mother's Name: Suvarna.N.Bhave</li> <li>• Sex: Male</li> <li>• Date of Birth: 17-02-1998</li> <li>• Nationality: Indian</li> <li>• Marital Status: Single</li> </ul>
REFERENCE	Available on request

DECLARATION

I hereby declare that all the above mentioned information given by me is true and correct to the best of my knowledge and belief.

Place : Pune

Soham.N.Bhave