

# ASHISH GAWALI

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## EDUCATION

### Pune University | Bachelor of Technology

May 2019

GPA: 7.56/10 (First Class with Distinction) | Major: Electronics and Telecommunication | Major: Computer Science (93%)

### Ashok Vidyalaya and Junior College | Higher Secondary Certificate (HSC)

May 2015

Aggregate Percentage: 88.9% | Major: Computer Science (93%)

### St. Vincent's High School | Secondary School Certificate (SSC)

May 2013

Aggregate: 88.9%

## SKILLS

**Languages:** C, C++, Javascript, Java, Python, R.

**Tools, and Frameworks:** Mendix, AppConnect, Angular 6, Git.

## TOP HONORS

### Winner | ABU National Robocon

- Won, as part of Team COEP, stood first amongst 110 participating teams.
- Represented India at ABU International Robocon 2017, finishing 6<sup>th</sup> amongst 19 participating teams from 18 countries.

## PROFESSIONAL EXPERIENCE

### Siemens Digital Industries | Associate Software Engineer

July '19 – Present

- Worked as a Full Stack Developer on Service Lifecycle Management (SLM) offering of Teamcenter, developed various features on Teamcenter RAC and Active Workspace both on the server and client-side.
- Integrated [Service Minder](#) application with Teamcenter, coordinated with UI/UX designer to design various pages and page layouts using CSS and Mendix.
- Developed various flows to integrate SLM solution with IBM Appconnect.
- Enhanced features to address customer IR's, developed utility as per customer request.

### Cummins Technical Center | Intern

May '18 – July'18

- Optimized scripts for data handling and visualization for virtual sensors for a truck engine.
- Developed a stand-alone application to analyze and visualize virtual sensor data.

## SELECTED PROJECTS

### Head Motion Capture and Mimicking System

- Designed and manufactured PCB for controlling the mimicking system as well as the head motion capture system.
- Ensured extraction of head motion data using multiple sensors, analyzed filter performance for minimum lag.
- Finished 3<sup>rd</sup> amongst 120+ teams in the Institution of Electronics and Telecommunication Engineers (IETE) Innovation competition organized by the Pune Chapter.
- Received the S.V.C. Aiya award for Best B.Tech Project 2019, presented by the Alumni Association of College of Engineering Pune.

### Shuttle Delivery Robot

- Designed the electronics and electrical circuit for a shuttle delivery robot.
- Developed the code to enable the semi-autonomous features and omni-direction motion capability of the robot.
- Formulated an algorithm to integrate input from various sensors such as optical encoders, infrared sensors to control the motion as well as the various pneumatic actuators present on the robot.

### Disk Throwing Robot

- Engineered a task-oriented robot with a team that was capable of shooting foam disks accurately on platforms placed at different distances as well as heights.
- Developed a system for loading the disks with precision onto the shooting platform of the robot.
- Manufactured interface various boards to enable smooth control of the robot.
- Finished 1<sup>st</sup> at ABU National Robocon 2017 as part of team COEP amongst 100+ participating teams.
- Received the Nagase Award for finishing 6<sup>th</sup> at the ABU International Robocon 2017 Tokyo as part of Team India.

### Automatic Viper system

- Designed and implemented a POC for an automatic viper system based on the intensity of rain.
- Interfaced Hall sensor with an Arduino Uno and a DC motor.

## CO-CURRICULAR

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### Robot Study Circle

- Developed firmware for various robots and projects including but not limited to the line following robot, shuttle delivery robot, shuttle delivery robot, disc throwing robot, grid puzzle-solving robot on ARM and AVR family microcontrollers.
- Interfaced various sensors and actuators to control various robotic systems.
- Tested, debugged, and enhanced microcontroller boards.
- Represented the College of Engineering Pune at National Robocon 2017, 2018, finishing 1<sup>st</sup> and 5<sup>th</sup>, respectively. Represented India at ABU International Robocon 2017 at Tokyo.
- Organized various seminars and workshops for college students on various topics on robotics.
- Conducted a seminar for high school students displaying the lifecycle for the development of a robot.
- Taught the basics of robotics to incoming freshmen at the Robot Study Circle.

### Boat Club

- Represented Maharashtra State at the 1<sup>st</sup> India Indoor National Rowing Championship.
- Worked towards the acquisition of rowing equipment such as sculling oars and ergometer display.
- Taught rowing to regatta participants.
- Took part in the 88<sup>th</sup> Regatta of College of Engineering Pune as a Shell Games Participant.

## LEADERSHIP AND OUTREACH

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### Account Head | *Robot Study Circle, 2018-2019* - College of Engineering Pune.

- Acquired various sensors, actuators, microcontrollers, microprocessors, GPU, connectors, was in charge of a budget of 13,50,000.
- Mentored a team of 20+ students for National Robocon 2019.
- Arranged the logistics and transportation of the team as well as the robots for National Robocon 2019.

### Event Head | *Mindspark, 2018* – College of Engineering Pune.

- Judged DogFight, a robotics competition where two teams compete against each other to complete various tasks.
- Designed the arena and oversaw its constructions.
- Organized the elimination as well as knockout rounds of the competition.