

ASHISH GAWALI

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EDUCATION

Master of Computer Engineering, University of Virginia 2021 - 2022
Relevant Coursework: Advanced Embedded Systems, Autonomous Mobile Robots.

Bachelor of Electronics and Telecommunication Engineering, College of Engineering, Pune 2015 - 2019
Minor in Computer Engineering

SKILLS

Programming Java, Javascript, TypeScript, Mendix, Embedded C, Node.js, HTML, CSS3
Software Visual Studio Code, Altium Designer, Matlab, Git, Polarion, Agile SAgE, RTOS, ROS, JIRA, JAMA

EXPERIENCE

Software Engineer, Analog Devices Inc. | Wilmington, MA January 2023 - Present

- Led development of critical components for CodeFusion Studio 1.0.0, including Software Component Manager and project creation backend, ensuring successful delivery under tight deadlines.
- Established development processes and coding standards for VSCode extension development, implementing agile methodologies and architectural best practices
- Coordinated release activities including feature demonstrations and technical documentation for major trade shows including CES, Embedded World NA, and ADI GTC.
- Participated in bug triage processes and maintained code quality through detailed code reviews.

Software Engineering Intern, PTC | Boston, MA June 2022 - August 2022

- Developed an in-browser code editing component based on CodeMirror6 using Angular, and Typescript to augment the development of software by the team.
- Developed an in-browser debugging component for exploring the use of API and the data model for Creo+ deployment using Angular, and Typescript.

Software Engineer, Siemens Digital Industries Software | Pune, IN July 2019 - July 2021

- Worked as a **Full Stack Developer** on Service Lifecycle Management (SLM) offering of Teamcenter, developed various features on Teamcenter RAC using Java and Active Workspace both on the server and client-side using C++ and JavaScript.
- Integrated [Service Minder](#) an IoT application with Teamcenter, coordinated with UI/UX designer to design various pages and page layouts using CSS and Mendix.
- Developed various AppConnect flows to integrate [SLM solution with IBM Maximo](#). For the same purpose developed a microservice leveraging GraphQL using Javascript and Docker for deployment reducing the development turnaround time more than 60%.

Intern, Cummins Technical Center | Pune, India May 2018 - July 2018

- Built a MATLAB script for processing and visualizing 25000 data points of a truck engine in various visual representations.
- Developed a stand-alone application using GUIDE to analyze and visualize virtual sensor data, reducing manual efforts from 5-6 hours per data set to couple of minutes.

PROJECTS

Emotional Support Robot November 2021 - December 2021

- Developed a [Autonomous Emotional Support Robot](#) using a ROSbot2.0 implementing Human-Robot Interaction.
- Devised the algorithm for the functionality of the robot.
- Aided in Human Detection and Human Emotion Recognition, Map creation using SLAM, and obstacle avoidance.
- Created simulation for the same in MATLAB and implemented it using ROS.

Cube Game November 2021 - December 2021

- Developed a [Cube Game](#) on a TI TM4C123GH6PM development board demonstrating implementation of a RTOS.
- Designed the cube motion, map creation, cursor motion, cube generation, and level progression keeping in mind the various deadlock conditions.

Head Motion Capture and Mimicking System September 2018 - May 2019

- Developed ARM controller-based head motion capture and mimicking system with an algorithm for minimum delay.
- Won the Best Capstone Project, and finished third amongst 120 teams in IETE Innovation competition.

LEADERSHIP

- Awarded UVA ECE [Graduate Teaching Award](#) for helping ECE fourth-years complete their Capstone Projects and helping students enrolled in Electromagnetic Energy Conversion.
- Mentored a team of 20+ students for ABU Robocon 2019, which finished 18th amongst 100+ participating teams.
- Mentored a couple of new grads and guided them in their transition from college to corporate.