Tanvi Jivtode

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Driven and goal-oriented Computer Engineering student excited about the embedded systems space; seeking an internship in embedded software or hardware for **Summer 2021**.

EDUCATION

University of Michigan (Computer Engineering)   *Ann Arbor, MI*
Bachelor of Science in Engineering, College of Engineering; Cumulative GPA: 3.49   *Expected 2022*

Organizations

Society of Women Engineers (SWE), Women in Electrical and Computer Engineering (WECE), Michigan Sahana

Skills

Extensive knowledge of C, C++, Verilog (FPGA), Bash, MATLAB, Angular
Familiar with NodeJS, Javascript, HTML, Python, Flask, PostgreSQL, ARM
Platforms and Applications: Windows 10, Linux, Git, EAGLE/Altium, OpenSCAD, Arduino, Quartus

Curriculum Highlights

Data Structures and Algorithms (EECS 281), Logic Design (EECS 270), Discrete Math (EECS 203), Computer Science Pragmatics (EECS 201), Computer Architecture (EECS 370), **Fall 2020:** Intro to Embedded Systems (EECS 373), Intro to Circuits (EECS 215), Quantum Nanotechnology (EECS 428)

Fred J. Page High School   *Franklin, TN*
Honors Diploma, Scholars Diploma, Salutatorian for Class of 2018; Cumulative GPA: 4.00   *2014 – 2018*

EXPERIENCE

Mcity - Connected and Automated Vehicle Test Facility   *Ann Arbor, MI*
Software Engineering Intern   *May 2020-*
                                                                                      Present
- **Current project:** developing a lightning detection and notification system (using C++ for sensor programming and Python for PostgreSQL/server interactions)
- **Previous project:** produced two wireless trigger devices, a button-based and LiDAR-based trigger (from printed circuit board design in EAGLE and firmware in C++ to server connection in Flask) used to set off facility events
- Contributing to the facility's central server API, OCTANE, using the Flask framework
- Creating hardware/software integrations for tools utilized in the test facility

Michigan Electric Racing   *Ann Arbor, MI*
Electric Vehicle Powertrain Team Member   *Sept 2019 -*
                                                                                      Present
- **Most recent project**: developed a schematic and printed circuit board for high voltage circuits, particularly a shutdown circuit (safety loop) for the powertrain
- Prototyping PCBs (in Altium) and building circuit boards to be used in the powertrain
- Becoming familiar with STM32 programming

DaVita Inc.   *Brentwood, TN*
Application Development Intern   *June 2019 –*
                                                                                      August 2019
- Assisted the team with evaluating user requirements and developing user interfaces for clinical tools using the Angular framework
- Gained experience with production, test suites, and debugging in the Angular framework to build effective solutions while improving problem-solving skills

RESEARCH

UofM Multidisciplinary Program   *Ann Arbor, MI*
Researcher, Mapleseed: Sensor Network Laboratory   *Jan 2020 -*
                                                                                      Present
- **Current project**: tasked with programming of a set of EZ430-RF2500 transceivers to employ their wireless capabilities as part of Mapleseed flyers
- Acting member of the Mapleseed research project under Professor Xiaogan Liang