Tanvi Jivtode

Michigan Address: 511 Linden St., Ann Arbor, MI 48104
Permanent Address: 1177 Olde Cameron Lane, Franklin, TN 37067, (615) 969-6755

tanvijivtode.github.io • tjivtode@umich.edu • github.com/tanvijivtode • linkedin.com/in/tanvijivtode

Driven and goal-oriented Computer Engineering student seeking full-time opportunities in the embedded systems space.

EDUCATION

University of Michigan (Computer Engineering) — *Ann Arbor, MI*
Bachelor of Science in Engineering, College of Engineering; Cumulative GPA: 3.60 — *Expected 2022*

Skills

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

Curriculum Highlights

Adv. Embedded Systems (EECS 473), Embedded Control Systems (EECS 461), Signals and Systems (EECS 216), Intr. Embedded Systems (EECS 373), Intr. Circuits (EECS 215), Data Structures and Algorithms (EECS 281), Logic Design (EECS 270), Computer Architecture (EECS 370)

Organizations

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

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

EXPERIENCE

Qualcomm — *San Diego, CA*
Interim Engineering Intern, Modem SW Team — *May 2021- Aug 2021*

- Tasked with porting GDB (GNU Project Debugger) to a proprietary external target, Integer Unit (IU) as part of a modem subsystem
- Developed an 'IU Manager' in C to handle GDB requests on the target side
- Implemented a Remote Serial Protocol server in Python to interact with GDB on the PC side

Mcity - Connected and Automated Vehicle Test Facility — *Ann Arbor, MI*
Software Engineering Intern — *May 2020- April 2021*

- 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
- Created IoT devices that add user-friendly and environmental elements to computerized tests to help improve testing of autonomous/connected vehicles

Michigan Electric Racing — *Ann Arbor, MI*
Electric Vehicle Powertrain Team Member — *Sept 2019 - Dec 2020*

- 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

DaVita Inc. — *Brentwood, TN*
Application Development Intern — *June 2019 – Aug 2019*

RESEARCH

UofM Multidisciplinary Program — *Ann Arbor, MI*
Researcher, Mapleseed: Sensor Network Laboratory — *Jan 2020 - Present*

- Embedded programming of a set of CC1310 development boards to employ their wireless communication capabilities
- Member of the Mapleseed research project under Professor Xiaogan Liang