Christopher P. Tava

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Objective

To obtain a summer 2025 internship, starting May 2025, with a strategic AI/ML + DSP company, leveraging foundational and dynamic knowledge in designing engineering prototypes for the public good to develop and test not just efficient and advanced electronic circuits and programs, but to put forward meaningful contributions to the wellbeing of ordinary people.

Education

Georgia Institute of Technology | Atlanta, GA *August 2024 – Present*
Bachelor of Science in Electrical Engineering, GPA: 4.00 Expected Graduation, December 2026

Skills

Programming: Rust, RTIC/RTOS, Java, Python (Numpy, Pandas, Matplotlib), TensorFlow, Data Structures/Algorithms, HTML/CSS
Platforms: Linux (ubuntu)
Hardware: ESP32, Arduino, Teensy, nRF24l01, PCB design, Universal Robot Robotics
Software: KiCAD, SolidWorks, MATLAB, Fusion, OnShape, Git/GitHub, OpenCV, Latex
Professional Organizations: Georgia Tech Institute of Electrical and Electronics Engineers
Communication: Research reports, research presentations, experiment write-ups, design proposals
Languages: French (conversational), English (native), Spanish (beginner), Hindi (beginner)

Experience

STEM for Success at New Jersey Institute of Technology | Newark, NJ *May 2023 – June 2024*
Engineering Intern
Launched state-wide education effort to bring engineering, CAD, and Aquaponics to 10+ NJ elementary and middle schools through 10-month NJIT-funded project.

- Conducted 3 Q&A sessions on engineering, engineering processes aquaponics with NJ elementary schools across the state to motivate students to pursue STEM
- Prototyped and designed $100 functional aquaponic system using 11-month experimental design for NJ schools
- Presented engineering project and 14-page experiment and research paper at global NJ State of Stem Conference for world education leaders and businesses

County College of Morris | Randolph, NJ *May – August 2023*
Manufacturing Engineering

- Led 6+ manufacturing/electronic projects involving resin 3D printers, metal lathes, CNC mills, Fusion 360 to optimize college subtractive manufacturing courses
- Optimized manufacturing department usage of $75,000 Universal Robot robotic arm through programming and vector motion manipulation

Projects

RoboCup Robotic Radio Controller | Robojackets Robotics *Semester 2024*
Firmware Subteam
Current electrical/firmware subteam project striving to design a PCB with nRF24l01 radios and a RTIC Teensy microcontroller in Rust to run communicate with team robots and run essential design and mechanical tests mid-competition.

- Established analog input via inbuilt ADC to Teensy in Rust RTIC to run 3 execution tests.
- Working to encode motor data into NRF24l01 to package into transmitter.

Leadership

Georgia Tech Science Olympiad | Exam Supervisor + Exam Writer *September 2024 – Present*

- Designed 50+ pages of Optics exam material for 48+ schools from around the US
- Led 2 exam proctors and 4+ other volunteers in running official Optics competition per national rules