

Kyle Tennison

📍 San Francisco, CA ✉ kyletennison05@gmail.com in kyle-tennison 🌐 kyle-tennison

Profile

Pragmatic Mechanical Engineering undergraduate adept in software development and computational problem solving. Proven proficiency in machine learning and CAE simulation development with a wide variety of open-source projects in Python, Rust, C/C++, and more. Collaborative teammate focused on delivering quality solutions in a timely manner.

Work Experience

- Product Management Intern, Onshape** (a PTC company) *June 2025 – Present*
 - Developed and trained neuro-evolution (NEAT) neural networks for internal prototyping
 - Experimental AI-driven robotics using/developing digital-twin simulations
- Cloud, AI, Enablement & Solutions Intern, Ansys** *June 2023 – April 2025*
 - Research and development of LLM & RAG workflows using LangChain
 - Key contributor to Python project(s) for cloud-native simulation platforms
 - Integrated Onshape into cloud simulations
- Software Engineer Intern, Avarok Cybersecurity** *June 2024 – Sept. 2024*
 - Front-end development with Figma; UI/UX
 - Tauri app development with Rust, TypeScript, and React
- Subsystem Engineer, FRC Team 5940** *March 2021 – June 2023*
 - Led Climber system development in 2023
 - Head of Machining in 2022
 - Competed in World Championships (2022 & 2023); ranked top 10 worldwide both times




Education

- Georgia Tech** *2024 – 2027*
(In progress) B.S. Mechanical Engineering; GPA 4.0
- Cañada College** *2023 – 2024*
Transfer, Mechanical Engineering; GPA 4.0

Awards & Certifications

- Cañada College Engineering Certificate
- FRC Awards (earned as a team):
 - Industrial Design Award (2023)
 - Excellence in Engineering (2023)
 - Competition Winner: Monterey 2022, Monterey 2023, World Championship–Roebbling Division 2022
- Georgia Tech ME2110 1st place Design Award (2025)

Projects

- Linear-Elastic FEA Solver (Magnetite)** [kyle-tennison/magnetite](#) 
 - Rust-based finite element solver for isotropic, linear-elastic materials.
- Ragposium** [ragposium.com](#) 
 - Free RAG (Retrieval Augmented Generation) search engine for academic papers published on arXiv.
- Self-Balancing Robot (Franklin)** [articles/franklin](#) 
 - ESP32-based, 3D printed self-balancing robot. Uses an accelerometer & PID loop.

Technologies

Languages: Python (7 yr), Rust (3 yr), C (4 yr), C++ (4 yr), TypeScript/JavaScript (3 yr)

Tools: SolidWorks (4 yr), OnShape (6 yr), Ansys (2 yr), KiCad (1 yr)