# **Kyle Tennison**

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#### **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 - Sep 2024

- Front-end development with Figma; UI/UX
- o 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):
  - Industrual Design Award (2023)
  - Excellence in Engineering (2023)
  - Competition Winner: Monterey 2022, Monterey 2023, World Championship-Roebling Division 2022
- o Georgia Tech ME2110 1st place Design Award (2025)

# **Projects**

#### Linear-Elastic FEA Solver (Magnetite)

• Rust-Based finite element solver for isotropic, linear-elastic materials.

# Ragposium

• 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 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)