

# Kyle Tennison

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## Education

<b>Georgia Tech</b> (In progress) B.S. Mechanical Engineering; GPA 4.0	2024 – 2027
<b>Cañada College</b> Transfer, Mechanical Engineering; GPA 4.0	2023 – 2024






## Professional Experience

<b>Product Management Intern, Onshape</b> (a PTC company) <ul style="list-style-type: none"> <li>Neuro-Evolution and Reinforcement Learning R&amp;D</li> <li>Rigidbody dynamic simulations</li> </ul>	June 2025 – Present
<b>CASE Intern, Ansys</b> <ul style="list-style-type: none"> <li>R&amp;D intern on CASE (Cloud, AI, Solutions, and Enablement) team.</li> <li>R&amp;D of LLM &amp; RAG workflows using LangChain</li> <li>Developed pre- and post-processing Python APIs for cloud-native simulations</li> <li>Integrated Onshape into cloud simulations</li> </ul>	June 2023 – April 2025
<b>Software Engineer Intern, Avarok Cybersecurity</b> <ul style="list-style-type: none"> <li>Quantum-resistant ultra-encrypted messaging service development in Rust &amp; TypeScript</li> </ul>	June 2024 – September 2024
<b>Team Member, FRC Team 5940</b> <ul style="list-style-type: none"> <li>Led Climber system development in 2023</li> <li>Head of Machining in 2022</li> <li>Competed in World Championships (2022 &amp; 2023); ranked top 10 worldwide both times</li> </ul>	March 2021 – June 2023

## 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)

## Projects

<b>Linear-Elastic FEA Solver (Magnetite)</b> <ul style="list-style-type: none"> <li>Rust-based finite element solver for isotropic, linear-elastic materials</li> </ul>	<a href="https://github.com/kyle-tennison/magnetite">github.com/kyle-tennison/magnetite</a> 
<b>Ragposium</b> <ul style="list-style-type: none"> <li>Free RAG (Retrieval Augmented Generation) search engine for academic papers published on arXiv</li> </ul>	<a href="https://www.ragposium.com">www.ragposium.com</a> 
<b>Self-Balancing Robot (Franklin)</b> <ul style="list-style-type: none"> <li>ESP32-based, 3D printed self-balancing robot. Uses an accelerometer &amp; PID loop</li> </ul>	<a href="https://kyletennison.com/articles/franklin">kyletennison.com/articles/franklin</a> 
<b>Newtonian Navier-Stokes CFD Solver</b> <ul style="list-style-type: none"> <li>A time-stepping Computational Fluid Dynamics (CFD) simulator for incompressible Newtonian fluids.</li> </ul>	<a href="https://github.com/kyle-tennison/navier-2d">github.com/kyle-tennison/navier-2d</a> 
<b>OnPy</b> <ul style="list-style-type: none"> <li>An intuitive, open-source Python interface to Onshape APIs</li> </ul>	<a href="https://github.com/kyle-tennison/onpy">github.com/kyle-tennison/onpy</a> 

## Awards & Certifications

<b>Georgia Tech ME2110 Design Award</b> <ul style="list-style-type: none"> <li>ME2110 competition robot won 1st place in Design</li> <li>Evaluated on: Design Implementation, Fabrication Approach, Design Ingenuity, Creativity, and Presentation Effectiveness</li> </ul>	April 2025
<b>Cañada College C.A. Engineering</b> <ul style="list-style-type: none"> <li>Certificate of Achievement in Engineering—awarded at commencement</li> </ul>	May 2024
<b>FRC Awards</b> (Team awards) <ul style="list-style-type: none"> <li>Industrial Design Award (2023)</li> <li>Excellence in Engineering (2023)</li> <li>Creativity Award (2023)</li> <li>Competition Winner: Monterey 2022, Monterey 2023, World Championship Roebling Division 2022</li> </ul>	March 2021 – June 2023

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