

Steven Andrade

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Education

University of Connecticut - BSE in Mechanical Engineering

Expected May 2027

- GPA: 3.789
- Relevant courses: Mechanics of Materials, Fluid Dynamics, Applied Thermodynamics, Sensors and Data
- Skills: SolidWorks, Siemens NX, Siemens TeamCenter, ANSYS FEA, Lathe, Milling, Word, Excel

Experience

Manufacturing Engineer Intern, ASML – Wilton, Connecticut

May 2025 - Aug 2025

- Designed a custom magnet cover for TwinScan EXE:5000 tooling using Siemens NX to improve technician safety and reduce ferromagnetic waves, documented process in Teamcenter.
- Collaborated with production engineers, technicians, contamination control, and defectivity teams to choose clean room safe materials, ensuring grade 2 particle, grade 4 molecular cleanliness.
- Authored Disturbance Notifications (DNs) and ASML Issue Resolvers (AIRs) to escalate and resolve production issues.
- Trained to be allowed in EUV cleanroom, performed contamination control procedures using particle measurement card sampling and blacklight/white light techniques.

Projects

CT-16 IC Damper Jigging

UConn Formula SAE Suspension 2024

- Designed and modeled suspension components including pull rods, tie rods, and damper jigs in SolidWorks for CT-16 IC car.
- Engineered suspension jigs based on free body diagrams to optimize alignment and structural stability to be used for support when welding dampers onto the frame.
- Machined A-ARM tabs and other components using milling machines, bandsaws, and lathes, ensuring drawing measurement accuracy.

CT-17 EV Shutdown and HVLV Box Redesign

UConn Formula SAE EV Powertrain 2025

- Led the redesign of the shutdown and HVLV boxes for CT-17 EV car to optimize space for the powertrain.
- Coordinated with electrical leads to reduce the Deutsch connector size by 25% due to unused pins.
- Designed a 3D-printed slit system for PCB installation using right-angle connectors to reduce the size of the shutdown box.

Leadership Experience

Resident Assistant, University of Connecticut - Storrs, Connecticut

Aug 2025 - Present

- Manage a residential community of 56 students, providing support, conflict resolution, and regular check-ins to foster a safe and inclusive living environment.
- Serve weekly duty shifts and four weekend rotations per semester, responding to on-call incidents and ensuring timely resolution of resident concerns.
- Organize and host community-building events to promote engagement, inclusivity, and peer connection across the residence hall.

L.S.A.M.P. Mentor, University of Connecticut - Storrs, Connecticut

Aug 2024 - May 2025

- Mentored four first-year engineering students through bi-weekly check ins that focused on personal development, campus involvement, and academic progress
- Guided two mentees into crafting their first resumes for the career fair and provided advice on engineering coursework