

NOAH WISE

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EDUCATION

San José State University — B.S. Materials Engineering

Expected May 2028

Concentration: Semiconductor, Mechanical & Structural Engineering · San Jose, CA

GPA: 3.1

- **Dean's Honor List** · Coursework: Struc/Prop of Solids, Polymers, Engineering Materials, CAD/SolidWorks, Mechanical Lab, Statics, MATLAB/Python

EXPERIENCE

Cooling & Chassis Engineer — Spartan Racing (SR-18)

Aug 2026 – Present

San José State University Formula SAE Team · San Jose, CA

- Design and develop cooling-system and chassis components for the team's formula-style race vehicle, applying thermal and structural analysis to meet performance and packaging constraints.

Lead Systems Engineer — NASA L'Space MCA

May 2026 – Aug 2026

National Aeronautics and Space Administration (NASA)

- Led a 9-person engineering sub-team, coordinating subsystem development, requirement verification, and risk identification, communication, and mitigation.
- Directed vehicle hardware and component selection across subsystems, balancing performance, reliability, and integration against mission requirements.
- Integrated engineering subsystems with the mission payload to align hardware with science objectives and system-level requirements.

Process Engineering Intern — Pinsarella

May 2026 – Aug 2026

San Diego, CA

- Performed root-cause and failure analysis on a high-temperature oven lubrication system, assessing thermal degradation, material compatibility, and fluid flow to improve reliability.
- Recommended process and design-validation improvements from lubricant-viscosity, valve-geometry, and operating-condition analysis to reduce downtime.

Materials Engineering Intern — Znrq Innovations

May 2025 – Aug 2025

Irvine, CA

- Conducted fluid-dynamics analysis of a water-tank system with integrated magnetic-induction heating to characterize heating performance and efficiency.
- Researched heat rate, heat retention, and ferritic-material performance through lab testing and prototype evaluation.
- Integrated onboard computing and IoT cloud services to instrument the system and analyze experimental performance data.

PROJECTS

Semiconductor Package Thermal Management & Reliability

2026

- Designed and experimentally evaluated three passive heat-spreader configurations for a packaged Raspberry Pi processor using aluminum heat sinks, copper shims, and polymer thermal-interface materials (TIMs).
- Built CAD and finite-element models in SolidWorks to analyze steady-state heat transfer, heat flux, thermal expansion, package deformation, and interfacial (CTE-mismatch) stress.
- Identified the lowest-thermal-resistance configuration and quantified its steady-state temperature reduction versus the baseline package.

RESEARCH

Engineering Researcher — Materials Engineering Lab

Jan 2025 – May 2025

California Polytechnic State University, San Luis Obispo

- Investigated heat-treatment processes and cold-working effects on the mechanical properties of metals.
- Characterized fracture behavior, phase relationships, corrosion resistance, polymer mechanics, and semiconductor properties.

LEADERSHIP & ACTIVITIES

Co-President — SAMPE

Sep 2024 – Jun 2026

Society for the Advancement of Material & Process Engineering · Cal Poly, San Luis Obispo

- Led a 20+ member team to design and fabricate a core-oriented carbon-fiber beam that withstood ~9,000 lbf.
- Engineered the composite layup (0°/45°/90° ply orientations) and validated the design with FEA prior to fabrication.

Engineering Instructor — High School STEM Program

2026 – Present

- Teach high-school students Materials Engineering fundamentals and carbon-fiber production techniques.

SKILLS

Software & CAD: SolidWorks, Siemens NX, ANSYS, Fusion 360, AutoCAD, Python, MATLAB

Thermal & Materials: Thermal management, heat-sink & heat-spreader design, thermal interface materials (TIM), FEA, heat transfer, failure & root-cause analysis, heat treatment, corrosion

Lab & Process: Materials characterization, prototype testing, design validation, process optimization, magnetic induction heating

Certifications: Siemens NX CAD Certification (In Progress)