

Nathan Greco

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Experience

Welding Supervisor — Cal Poly ME Machine Shops, San Luis Obispo, CA | Jun 2024 – June 2025

- Supervised machine shop welding operations, trained students in MIG/TIG processes, and maintained weld shop inventory & consumables.
- Provided technical support on student welding tasks, improving fabrication efficiency and effectiveness for specific engineering projects.

Shop Technician — Cal Poly ME Machine Shops, San Luis Obispo, CA | Sep 2023 – June 2025

- Assisted 100+ students with machining/fabrication projects, refining technical communication and process selection.
- Led Summer 2024 shop improvement projects and trained 12 new technicians in machine shop safety and effective student instruction.

Painter/Stainer (Skilled Laborer) — Weber Home Services, Truckee, CA | Summer 2023, Summer 2025

- Solved challenging on-site conditions while delivering high-quality exterior finishes on residential projects.

Projects

Custom Pop-Up Truck Camper (Personal)

- Designed, fabricated, and tested lightweight slide in truck camper. Fabricated Steel tubing and waterjet sheet metal frame, with fiberglass foam composite pop-up roof with canvas and HDPE waterproof exterior
- Integrated 100Ah lithium battery, 240W solar + generator charging, and performed structural analysis.

Custom Low-Profile Vacuum Valve (Senior Design Project) – Autometrix inc.

- Collaborated to design and manufacture an air valve within specific customer constraints; modeled in SolidWorks/FEA, prototyped via 3D printing and machining.
- Designed and built custom prototype circuit-board logic controller.
- Validated design through pressure testing and tolerance analysis.

CNC Machining Fixture (Project)

- Designed and fabricated a precision fixture for part holding on CNC mill.
- Optimized setup time and machining repeatability while considering cost and manufacturability.

SLO County Greenhouse Fabrication – Cal Poly ME Machine Shops

- Consulted with Senior design group on fabrication plans for custom plant greenhouse for County conservation facility.
- Transported equipment and welded greenhouse structural members on site with design group.

Technical Skills

SolidWorks, HSMWorks, MATLAB/Simulink, Fusion 360, Adobe Illustrator, MS Office Suite, Minitab, JMP | TIG/MIG Welding, CNC Machining, Fixture and Jig Manufacturing, Manual Machining, Sheet Metal Fab., CMM and Metrology | Rapid Prototyping, Design for Manufacturing, FEA, GD&T ASME Y14.5

Education

California Polytechnic State University, San Luis Obispo, CA — 2025

Bachelor of Science in Mechanical Engineering

- Concentration in Manufacturing