

Nina Parrish

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SUMMARY

Mechanical engineering student with 3.7 GPA and more than one year of university project, laboratory, and **research experience** connecting **engineering requirements** with sourcing decisions. Work includes **bills of materials**, component specifications, engineering drawings, material selection, supplier research, cost comparisons, lead time reviews, and requirements traceability for hardware focused systems. Cross functional project work has linked design revisions with procurement assumptions, supplier risk, manufacturability, and test readiness. Laboratory experience includes high temperature assemblies, purchase specification checks, technical documentation, and research presentations. Student leadership and mentoring have strengthened **technical communication**, initiative, adaptability, and teamwork. Brings careful analytical judgment to evolving requirements and hands on development settings, with a clear interest in contributing useful sourcing insight, supplier research, and disciplined documentation within an on site engineering environment.

EDUCATION

Bachelor's Degree in Mechanical Engineering
California Polytechnic State University, San Luis Obispo GPA: 3.7
Coursework: Materials science, manufacturing processes, engineering design, supply chain engineering

2027
San Luis Obispo, California

TECHNICAL SKILLS

- **Sourcing Analysis:** Technical sourcing, supplier research, supplier comparison
- **Procurement:** Technical procurement, purchase specifications, sourcing plans
- **Materials Engineering:** Material selection, material specifications, high temperature assemblies
- **Engineering Documentation:** Engineering drawings, bills of materials, decision logs
- **Cost Analysis:** Cost comparisons, cost summaries, make or buy analysis
- **Lead Time Planning:** Lead time analysis, long lead reviews, delivery information
- **Supplier Development:** Supplier development fundamentals, supplier risk, supplier evaluation
- **Requirements Management:** Requirements traceability, requirements matrices, specification review
- **Laboratory Operations:** Incoming checks, fit verification, test readiness
- **Software Tools:** Microsoft Excel, spreadsheets, shared records
- **Technical Communication:** Technical presentations, research posters, design reviews
- **Project Methods:** Trade studies, cross functional teamwork, structured problem solving

SKILLS

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|-------------------------|------------------------|-----------------------------|------------------------------|
| • Technical Sourcing | • Bills of Materials | • Cost Analysis | • Technical Communication |
| • Supplier Research | • Engineering Drawings | • Lead Time Analysis | • Analytical Problem Solving |
| • Supplier Development | • Material Selection | • Requirements Traceability | • Cross Functional Teamwork |
| • Technical Procurement | • Supplier Comparison | • Microsoft Excel | |

EXPERIENCE

Supply Chain Engineering Capstone Team Member
Capstone Project

January 2026 - Present
San Luis Obispo, California

Supports a university prototype through requirements translation, sourcing analysis, **supplier comparison**, documentation, and faculty reviewed procurement decisions. Coordinates with student engineers during design changes and communicates cost, lead time, technical risk, and test readiness considerations during project reviews.

- Translated subsystem requirements into a bill of **materials** and sourcing plan for a university prototype
- Built supplier matrices for technical compliance, cost, lead time, minimum orders, and manufacturing considerations
- Updated procurement assumptions after design revisions, keeping drawings aligned with test requirements
- Documented make or buy tradeoffs and supplier risks for faculty reviewed design decisions
- Maintained specifications and decision logs, preserving traceability from engineering need through supplier selection
- Presented long lead recommendations during reviews, supporting an organized academic build schedule

Undergraduate Engineering Researcher
University Research Lab

September 2025 - December 2025
San Luis Obispo, California

Supported laboratory research involving high temperature mechanical assemblies, supplier research, material specifications, purchasing analysis, incoming checks, and experimental documentation. Connected technical requirements with practical purchase recommendations and communicated sourcing constraints through a research poster.

- Organized component requirements and material specifications for high temperature mechanical assemblies
- Compared specialty supplier data with **laboratory** requirements before purchase recommendations received review
- Created cost and lead time summaries for recurring test articles within grant constraints
- Verified received components against purchase specifications and documented discrepancies before laboratory use
- Maintained test, supplier, and procurement records, preserving traceability across experimental configurations
- Presented a research poster linking design requirements, material choices, procurement constraints, and test readiness

Mechanical Systems Project Team Member

October 2024 - August 2025

Student Lab

San Luis Obispo, California

Contributed to a supervised hardware project involving structural, fastening, and motion control components. Supported component research, alternate part evaluation, shared bill of materials maintenance, incoming checks, fit verification, and weekly communication across design, build, and sourcing activities.

- Researched structural, fastening, and motion control components for a student hardware project
- Converted design requests into research tasks using drawings, dimensions, materials, and operating conditions
- Evaluated alternate parts with long lead times and documented technical differences for review
- Organized a shared bill of **materials** with links, revisions, quantities, and delivery information
- Performed incoming checks and basic fit verification during supervised assembly activities
- Delivered weekly technical updates, connecting design, build, and sourcing decisions

PROJECTS

Prototype Sourcing Study 📅 2026

Created a structured sourcing study for more than 30 prototype items, comparing technical compliance, cost, lead time, minimum orders, and manufacturing considerations. Results supported supplier selection discussions and clearer procurement planning.

High Temperature Assembly Research 📅 2025

Organized supplier data, material specifications, purchase information, and test article planning for high temperature mechanical assemblies. Research connected laboratory requirements with practical sourcing recommendations and documented test readiness.

LEADERSHIP & AWARDS

- Dean's List recognition, 2025 and 2026, reflecting sustained academic performance.
- College of Engineering Undergraduate Project Scholarship, 2026, supporting hands on engineering development.
- Student Research Poster Recognition, 2025, honoring clear technical communication.

CERTIFICATIONS

- Supply Chain Management Specialization 📅 2026
- Engineering Project Management Foundations 📅 2025

PROFESSIONAL AFFILIATIONS

- Procurement Lead, Student Design Project Team, coordinating sourcing research and component decisions.
- Peer Mentor, College of Engineering, supporting student communication and academic progress.
- Member, Campus Engineering Project Council, contributing to university engineering activities.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST