

Jack Baker

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SUMMARY

Dedicated and motivated technical student with hands-on experience in mechanical systems through rigorous academic projects and internships. Pursuing a degree in Mechanical Engineering with a focus on automotive and diesel technology. Proven ability to learn quickly, adapt to new environments, and collaborate effectively within teams to achieve project goals. Strong foundation in mechanical principles, customer service, and problem-solving, preparing for a successful career in equipment maintenance and repair. Eager to apply skills and knowledge at Tech Solutions Inc. while contributing positively to team dynamics.

EDUCATION

Bachelor of Science in Mechanical Engineering 2026
University of Washington GPA: 3.5 *Seattle, WA*
Coursework: Fluid Mechanics, Thermodynamics, Materials Science, Automotive Systems

TECHNICAL SKILLS

- CAD Software:** AutoCAD, SolidWorks, CATIA
- Diagnostic Tools:** OBD II Scanner, Engine Analyzer, Multimeter
- Maintenance Procedures:** Routine Maintenance, Inspections, Troubleshooting
- Project Management Tools:** Trello, Asana, Microsoft Planner
- Communication Tools:** Slack, Microsoft Teams, Zoom
- Testing Software:** MATLAB, Simulink, LabVIEW
- Research Methodologies:** Experimental Design, Statistical Analysis, Data Visualization
- Engine Technicians:** Service Manual, Technical Bulletins, Manufacturer Specifications
- Workplace Safety Certifications:** First Aid, CPR, OSHA Safety Training
- Vehicle Types:** Diesel Engines, Gasoline Engines, Hybrid Vehicles

SKILLS

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|-------------------------|---------------------------|------------------------------|--------------------------|
| • Mechanical Aptitude | • Technical Documentation | • Troubleshooting Techniques | • Data Analysis |
| • Equipment Maintenance | • Problem-Solving | • Communication Skills | • Safety Protocols |
| • Customer Service | • Tools Familiarity | • Collaboration Tools | • Research Methodologies |
| • Team Collaboration | • Diesel Technology | • Project Management | • Hands-On Training |

EXPERIENCE

Mechanical Systems Developer January 2026 - Present
University Project *Seattle, WA*

Focused on developing and testing mechanical prototypes emphasizing automotive applications through collaborative team efforts. Responsibilities included using CAD software for design, conducting real-world testing, and presenting innovative solutions to faculty. Contributions aimed at enhancing knowledge and practical application of engineering concepts.

- Developed and tested mechanical prototypes focusing on automotive applications using CAD software.
- Collaborated with classmates to redesign components for enhanced efficiency, improving project outcomes.
- Conducted thorough testing on mechanical systems to ensure functionality and reliability in real-world scenarios.
- Presented findings to faculty and peers, highlighting innovative solutions and design principles.
- Documented processes and outcomes in a comprehensive report for academic evaluation.
- Utilized various tools and techniques, increasing familiarity with industry-standard mechanical equipment.

Research Assistant September 2025 - December 2025
University Research Lab *Seattle, WA*

Contributed to research focused on enhancing diesel engine performance while working in a supportive environment that encouraged collaboration. Involved in hands-on experiments and data collection improved documentations while coordinating with team members for presentations on key findings.

- Assisted in research focused on diesel engine performance and emissions reduction techniques.

- Engaged in experiments to analyze engine behavior under various conditions, supporting published findings.
- Supported data collection and analysis efforts, improving research accuracy and efficiency.
- Coordinated with the research team to prepare presentations for departmental seminars.
- Gained experience in using diagnostic tools and software for engine testing and analysis.
- Enhanced technical writing skills through preparation of research documentation and reports.

Service Technician Intern

June 2025 - August 2025

Bootcamp Project

Remote

Experienced training sessions focused on servicing and maintaining diesel engines within a bootcamp setting. Collaborative initiatives engaged peers to troubleshoot complex mechanical issues while prioritizing safety protocols and customer interactions.

- Participated in a bootcamp focused on servicing and maintaining diesel engines, gaining practical skills.
- Collaborated with peers to troubleshoot and resolve mechanical issues in simulated environments.
- Learned customer service best practices, enhancing communication skills through role-play exercises.
- Completed hands-on training modules that emphasized safety protocols and equipment handling.
- Engaged with industry professionals to gain insights into career paths and opportunities.
- Developed a foundational understanding of equipment maintenance practices relevant to the field.

LEADERSHIP & AWARDS

- Dean's List, University of Washington (2025)
- First Place, Engineering Design Competition (2025)

CERTIFICATIONS

- OSHA 10-Hour General Industry Certification  2026
- Automotive Service Excellence (ASE) Certification - Student Level  2026

PROFESSIONAL AFFILIATIONS

- Member, Mechanical Engineering Society
- Volunteer, Local Community Service Projects

LANGUAGES

- English (Native)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST