



JAN SCHLEGEL

MECHANICAL ENGINEER

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I am a mechanical engineer with 2+ years of experience in high volume plastics manufacturing, seeking a long term career in aerospace and automation. I am enthusiastic to work on any tangible products and problems, and I spend my free time engrossed in projects such as robot arms, RC planes, drones and jet engines.

EDUCATION

MS in Engineering Science & BS in Mechanical Engineering

- University of the Pacific
- Stockton, CA
- 2017-2022
- GPA 3.8
- Division 1 Athletics
 - Swimming, 2017-2022

Technical Skills

- Coding:
 - MATLAB, Latex, Python, C#, C++, VBA
- Software:
 - SolidWorks, Pspice, Arduino, Simple IDE, Excel
 - Kronos time clock
- Equipment:
 - Milling, Lathe, MIG/TIG Welding, 3D printing
 - Kronos bottling line
 - Domino lasers & printers

Interpersonal Skills

- Problem Solving
- Team Player
- Results Oriented
- Leadership
- High Stress Tolerant
- Bilingual - German

Certifications

- Lean 6 Sigma Green Belt, 2023
- Engineer in Training, 2021
- Private Pilot, 2020
 - #4289365

WORK EXPERIENCE

Maintenance Supervisor | Niagara Bottling May 2021 - May 2024

- Completed Manufacturing Development Program & promoted to supervisor position.
- Responsible for preventative maintenance (PM) team performance and night shift maintenance team.
- Coordinated with multiple teams & vendors under high time pressure.
- Created and improved systems such as machine productivity automation, safety observation, and modular rebuild tracking system.
- Contributed to the elimination of out of spec readings for Ozone injection system (improved process from 3 to 6 sigma).
- Traveled to other locations to support struggling maintenance departments with leadership & lean practice optimization.
- Adapted to strenuous physical work environments and high demand time commitments including on-call weekends, night shifts & 12+ hour days.

Quality Manufacturing Engineer | Aero Turbine Inc. Sep. 2021 - Apr. 2022

- Managed Product Quality Deficiency Reports on J85-5 and J85-21 jet engines used in T-39 trainers and F-5s.
- Developed repair procedures for two high value assemblies (\$1M+ per).
- Created complex 3D printed parts using 1960's OEM drawings to reduce wasted time in frictionless carbon film application system.
- Maintained high quality record keeping practices and AS9100/9110 standards.
- Studied GD&T notation & applied it to drawings for small manufacturing runs.

FSAE Project Manager & Treasurer | UOP Motor Sports Team 2018 - 2022

- Directly managed and led 20+ students on collaborative design and construction for UOP's first ever vehicle at the 2022 Formula SAE event.
- Passed all 4 inspections and placed 42nd out of 100 Schools.
- Coordinated with private & corporate sponsors to fundraise \$30,000 towards the team budget.
- Led the design and fabrication of the chassis, fuel system and power train using FEA & SolidWorks to ensure reliable performance.
- Successfully facilitated handover of leadership responsibilities to ensure continuity of team effectiveness.

References

- Taylor Shelman - *CI Manager, Niagara Bottling, (903) 850-1280*
- Eric Taylor - *Engineer, Aero Turbine, (707) 685-0894*
- Andrew Lutz - *ME Professor, UOP, alutz@pacific.edu, (209) 946-2210*