Kenneth Schultz

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SUMMARY

Dedicated Mechanical Engineering graduate with practical experience in optimizing processes and improving workflows in manufacturing industries. Proven ability to write production plans, assess defects creatively, and enhance efficiency in assembly procedures. Eager to apply insights from academic projects toward real-world applications, collaborating effectively with team members to support operational goals. Confidently adept at interpreting GD&T for mechanical structures, aiming to contribute strategic improvements and uphold high standards of quality assurance. Excited about making a meaningful impact at Innovative Engineering Solutions while supporting the development of advanced weapon systems.

EDUCATION

Bachelor of Science in Mechanical Engineering 2026

University of Pennsylvania GPA: 3.5 *Philadelphia, PA*

Coursework: *Thermodynamics, Fluid Mechanics, Materials Science, Manufacturing Processes*

TECHNICAL SKILLS

- **Computer-Aided Design Tools:** AutoCAD, SolidWorks, CATIA
- **Manufacturing Software:** SAP ERP, MRP Systems, PLM Software
- **Project Management Tools:** Trello, Asana, Microsoft Project
- **Testing Equipment:** Calipers, Micrometers, Gauges
- **Quality Control Standards:** ISO 9001, AS9100, Six Sigma
- **Data Analysis Tools:** MATLAB, Python, Excel
- **Assembly Techniques:** Manual Assembly, Automated Assembly, Lean Techniques
- **Communication Tools:** Slack, Microsoft Teams, Zoom
- **Performance Monitoring:** Kaizen, Value Stream Mapping, Process Flow Analysis
- **Presentation Software:** PowerPoint, Google Slides, Prezi

SKILLS

- GD&T
- Lean Manufacturing
- Mechanical Assembly
- Production Planning
- Quality Assurance
- MS Office
- CAD Software
- Root Cause Analysis
- Process Improvement
- Documentation
- Collaboration
- Inspection Criteria
- Workflow Optimization
- Technical Drawings
- Research Methodologies
- Schematic Adjustments

EXPERIENCE

Manufacturing Engineering Intern

January 2026 - Present

University Project *Remote*

Focused on designing effective manufacturing processes tailored for electronic assemblies. Experienced in implementing lean principles while liaising with faculty on quality assessments and process evaluations, leading initiatives critical for enhancing operational transparency and workflow optimization.

- Designed an innovative manufacturing process for electrical component assembly that boosted workflow efficiency by 15%.
- Developed production plans alongside inspection criteria for prototypes, ensuring strict compliance with industry norms.
- Collaborated within student teams to conduct thorough root cause analyses on hardware defects, suggesting corrections that improved detection accuracy by 20%.
- Interpreted technical drawings using GD&T, significantly elevating the precision of engineering methodologies.
- Compiled detailed documentation of operational results for academic showcases, reinforcing understanding of industry practices.
- Executed thorough performance analysis on various assembly techniques, yielding insights for process enhancement.

Engineering Research Assistant

September 2025 - December 2025

Academic Research *Remote*

Contributed to cutting-edge research surrounding lean manufacturing strategies in small-scale production setups, utilizing CAD technologies for schematic adjustments, vital for space efficiency and holistic workflow development.

- Assisted in investigating lean methodologies via project-based studies focusing on enhancing productivity.
- Utilized CAD software for developing schematics aimed at reengineering product layouts for optimal usability.
- Supported experimental frameworks to test assembly methods effectiveness, offering actionable recommendations based on findings.

- Documented essential research outcomes, emphasizing implementation opportunities relevant for industry practices.
- Actively participated in brainstorming sessions refining objectives, demonstrating enhanced collaborative aptitude.
- Presented comprehensive research results to academic audiences, attracting valuable feedback supporting future developments.

Mechanical Engineering Lab Assistant January 2025 - May 2025

Student Lab *Philadelphia, PA*

Engaged students by providing clarity on key mechanical assembly aspects during lab demonstrations, fostering a productive educational environment while maintaining equipment readiness.

- Guided peers through mechanical assembly processes, nurturing a teamwork-focused educational atmosphere.
- Displayed GD&T principles through practical scenarios, enhancing student appreciation for accurate engineering pursuits.
- Monitored lab equipment's functionality, ensuring operational safety and workflow continuity.
- Created instructional resources targeting complex concepts in manufacturing and engineering fields.
- Facilitated group projects promoting collaboration and effective problem-solving amongst fellow students.
- Reviewed student assignments and offered constructive critiques, aiding in overall comprehension of engineering frameworks.

LEADERSHIP & AWARDS

- Dean's List, University of Pennsylvania, 2025
- Engineering Excellence Award, 2025

CERTIFICATIONS

- Lean Manufacturing Certification 2026
- Six Sigma Green Belt Certification 2026

PROFESSIONAL AFFILIATIONS

- Member, Engineering Student Association, 2024 - 2026
- Participant, Annual Hackathon, 2025

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST