

# Grey Liedtke

<https://greyliedtke.github.io>  
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## Education:

California Polytechnic State University, San Luis Obispo  
Bachelor of Science in Mechanical Engineering  
GPA: 3.5

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## Skills:

Computer: Fusion 360, Solidworks, Python, Matlab, AutoHotkey, Groovy, C++, ALC, GIT  
Equipment: Soldering, Welding, Glassworking, Woodworking, Machining

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## Mechanical Engineering Experience:

**Programming Engineer**, Automated Solutions Group – San Jose, CA August 2019-Present

- Effectively programmed building management systems to optimize energy usage
- On site experience troubleshooting, starting up, and testing equipment/controllers
- Developed scripts and automated processes to improve workflow
- Created internal website to manage remote servers and common tasks

**Mechanical Engineering Intern**, Test Resources – Shakopee, MN Summer 2018

- Assembled, wired, and performed trial testing on electromechanical testing machines
- Calibrated load cells, extensometers, and deflectometers to improve machine accuracy
- Hands on experience troubleshooting, soldering, and disassembling machines

**Project Management Intern**, Powder-Process Solutions – Chanhassen, MN Summer 2017

- Conducted base testing to integrate pneumatic conveying system into dairy factory
- Assisted project managers with ordering parts, reviewing fabrication drawings, and assembling bulk powder systems
- Effectively communicated with vendors and clients to select powder processing components specific to customer needs

**Manufacturing Engineering Intern**, Medtronic – Chanhassen, MN Summer 2016

- Redesigned overheating device to improve airflow and heat transfer
- Used SolidWorks to design and 3d-print wall fixtures used in the manufacturing room
- Improved manufacturing floor process by revising manufacturing floor work instructions

## Projects:

- Woodworking - Design and build unique ideas: sauna, swing, lifeguard chair, easel
- Website- Creating learning platform (link coming soon)
- 3D printing - Design and manufacture parts from idea to fruition
- Arduino - Motion tracking, lights, motors, solar, self-balancing robot
- Hand Dynamometer Senior Project - Designed MRI compatible hand dynamometer
- Bike Prototype - Designed and built a functioning swing bike