
8133 Basswood Lane, Woodridge, Illinois 60517 | kgriffin.me | kgrif131@iastate.edu

Education

IOWA STATE UNIVERSITY | MECHANICAL ENGINEERING | GRADUATION 2022

- 3.40/4.0 GPA

Experience

PROCESS DESIGN & DEVELOPMENT ENGINEERING CO-OP | THE TIMKEN COMPANY | JUNE – AUGUST 2020

- Created and revised engineering drawings using an in-house automation system to be used in plants worldwide.
- Corrected and added features on 3D models (NX) created by the automation system.
- Worked with data (JMP) to assist in cutting heat treat process timing down by 20%.
- Networked with more full-time employees to further my knowledge of the company and industry.

APPLICATION ENGINEERING CO-OP | THE TIMKEN COMPANY | MAY 2019 – AUGUST 2019

- Created a presentation to teach future co-op and full-time employees Timken proprietary CAD software.
- Wrote an aerospace application development guideline as reference for full-time use.
- Collected and organized back-end data for impactful company projects.
- Networked with current employees in different departments to better understand their role and the company.

VOLUNTEER TEACHER | DOWNERS GROVE NORTH | SUMMER 2015, SUMMER 2016

- Taught middle school students how to model in Autodesk Inventor during three-day engineering camps.

Extracurricular Projects

DIY ELECTRIC BICYCLE | 2018 - 2019

- Converted a standard bicycle to electric with a low budget focus.
- Built my own battery pack to learn how it works and to cut costs.
- 3D modeled and 3D printed various custom parts for the bike in order to protect the upgrades from the elements.

3D PRINTING | 2016 - PRESENT

- Utilize two 3D printers, one of which I built in entirety.
- Learned how computers and 3D printers interact as well as learned to troubleshoot and analyze challenges during the build process.

WEATHER BALLOON | 2015 - 2016

- Co-founded the Engineering Club at Downers Grove North High School.
- Launched a weather balloon to collect data in the stratosphere.
- Presented the project at the IJAS science fair and competed at the state level.
- Featured in Tom Skilling's Weather Day at U.S. Cellular Field as well as *TIME for Kids* magazine.

CAD COMPETITION | SPRING 2015, SPRING 2016

- Competed two times in the IDEA drafting competition using the CAD software Autodesk Inventor.

Skills

SOLIDWORKS, AUTODESK INVENTOR, NX, MATLAB, JMP, PYTHON (NOVICE), MS OFFICE, HTML, 3D PRINTING