

# Andrew Katz

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## EDUCATION

*Mechanical Engineering, The Ohio State University*

*Aug 2019 – Dec 2023*

GPA: 4.00

Summa Cum Laude

## EXPERIENCE

### GE Appliances

*Top Load Washer Systems COE – 3<sup>rd</sup> Co-op Rotation*

*May 2023 – Present*

- Acted as Co-President of the program supporting over 150 interns
- Identified and prototyped the first and only existing path to compliance with 2027 DOE regulations
- Designed cycle algorithms in Lua and gained experience with a GitHub development environment

*Dishwasher Advanced Systems – 2<sup>nd</sup> Co-op Rotation*

*May 2022 – Aug 2022*

- Developed a Python-based tool to process data from 200 field test units reducing weekly workload from 3 hours to less than a minute
- Prototyped and tested solutions to increase the length of filter life by 80 percent in unit performance tests
- Designed and assembled a LabVIEW controllable fixture to test reliability of impeller clutches

*Sage Indoor Grower – 1<sup>st</sup> Co-op Rotation*

*Jan 2021 – May 2021*

- Awarded a patent for the design of an aeroponic water and nutrient dispensing system
- Prototyped and 3D printed parts using CAD and an iterative design process
- Assembled and tested 7 full-scale units for a field test product build

### AWARDED PATENT (No. 11730096)

*August 2023*

- Rotational aeroponic grow system utilizing two misting nozzles for an indoor garden appliance
- System was used within the Sage Indoor Garden grow chamber

## OUTSIDE PROJECTS

*Coffee Roaster Capstone Design*

*Jan 2023 – Present*

- Implemented a safe roasting system to withstand 600°F with controllable airflow and temperature
- Created an easily approachable user interface with customizable options for all roast characteristics
- Developed and modeled a prototype in CAD following a manufacturable design

## SKILLS AND INTERESTS

- CSWA SolidWorks Certification, Creo Parametric, GD&T, LabVIEW, GitHub, Python, Lua, C++, MATLAB, Simulink, CNC Machining, and Rapid Prototyping
- Spanish - Level 2+ (ILR)
- I enjoy going rock climbing, playing guitar, and weightlifting