

# Ben Gardy

New York, New York

[bengardy@gmail.com](mailto:bengardy@gmail.com) 917-520-9508 <https://www.bengardy.com/>

## Work Experience

**Sense** Cambridge, MA

January – July, 2022

*Hardware Engineer*

- Designed and built test fixtures using SolidWorks and 3D printing to allow QA teams to test several units at once
- Maintained an RMA center which received hundreds of customer units weekly for repairs or returns
- Tested current hardware using internal tools ahead of new software releases
- Performed Six Sigma Analysis on Asia based manufacturing plant using excel to increase part yield by over 10%

**24m Technologies** Cambridge, MA

January – July, 2021

*Battery Engineer*

- Conducted performance testing on prototype lithium-ion batteries using Maccor and Neware battery cyclers
- Communicated battery performance to engineering managers to prepare prototypes for investor progress reports
- Visualized cycle life performance using tableau and excel databases comparing prototypes and existing batteries

**Living Proof** Boston, MA

January – August, 2020

*Packaging Engineer*

- Designed tests on existing consumer packages to evaluate package performance, and tracked results in Excel
- Performed tests on decoration compatibility, transit simulations, weight loss, and dispensing performance
- Built an Excel model to convert global sales data to material utilization data, for sustainability requirements

## Skills

### **Certifications:**

- SolidWorks CSWP Certification

### **Technical Skills:**

- Autodesk AutoCAD, MATLAB, ANSYS
- Machining (CNC Lathes and Mills), 3D Printing
- MS Office (Word, Excel, PowerPoint, Power BI)

## Education

**Northeastern University** Boston, MA

May, 2023

Bachelor of Science, Mechanical Engineering

**Activities:** NetImpact Northeastern, American Society of Mechanical Engineers (ASME)

## Academic Projects

**Relevé Convertible High Heel Shoes**, Capstone Design Class

Fall, 2022

- Created a mechanism that allowed for a high heel shoe to convert from a stiletto to a sandal for an external client
- Designed and tested the mechanism using SolidWorks and ANSYS Mechanical Finite Element Analysis
- Prototyped the mechanism through in house 3D printers, and an external contract manufacturer

**Bicycle Multi-Tool CAD Model**, CAD And Manufacturing Class

Spring, 2023

- Modeled a bicycle specific style multi-tool using SolidWorks
- Designed individual parts and assemblies by dismantling and rebuilding an existing Crank Brothers m19 tool
- Produced engineering drawings for individual parts, created bills of materials for assembly drawings

## Personal Projects

**Upcycling Project**

Spring, 2018

- Created a coffee table from a discarded bulletin board and reclaimed pipes
- Fabricated a custom glass top using a waterjet
- Designed adjustable legs using SolidWorks, fabricated using discarded sink and drainpipes