

# Lydia Joubert

Fueled by curiosity, inspired by empathy

## WORK EXPERIENCE

### Firebrand Generator - Capstone Project

Northeastern Uni. | Boston, MA | Sept 2020 - May 2021

- Designed and built a firebrand generator to test the efficacy of different SS mesh sizes in preventing spread of embers
- Planned, budgeted and communicated with vendors, professors and technicians to complete the project

### Project Engineering Co-op

Hasbro | Providence, RI | July 2020 - Nov 2020

- Attended daily meetings with multidisciplinary teams to discuss product development and timeline issues
- Regularly completed engineering, costing and weight specs for various products and teams
- Developed multiple game ideas and pitched multiple rounds of stage gate presentations to a team of project engineers

### Design Engineering Co-op

Hegenscheidt MFD | Germany | Sept 2019 - Dec 2019

- Created 3D models and drawings for components of a pipe bending machine for manufacturing efficiency
- Built a 3D model (Solidworks) of a crankshaft deep rolling machine customized for FCA Termoli
- Assembled Portal Wheelset Lathes and solved manufacturing errors with machine tools (power drill, file, spirit level)
- Developed an understanding of the German language and culture

### Research & Development Co-op

Waters Corp. | Milford, MA | July 2018 - Dec 2018

- Developed an assembly procedure for an automated belt drive system/mechanical prototype
- Devised a method of testing tension in a belt drive system on an Instron and created a fixture to tension belt
- Presented data, test procedures, and proposed solutions in weekly meetings with a multidisciplinary team
- Designed, budgeted, and built a trophy case from 8020 and acrylic for a charity event
- Fabricated mechanical prototypes and fixtures leveraging 3D printers, laser cutter and machine shop tools
- Devised, tested and optimized insulation for an automation port in sample manager for life cycle testing
- Compiled an Igor script to automate data processing

## EDUCATION

### Higher Education

Northeastern University | May 2021

Bachelor of Science in Mechanical Engineering, Minor in Mathematics  
GPA 3.8

## ADDITIONAL EXPERIENCE

### Podcast Host & Editor

Northeastern Uni. | Sept 2020 - Today

- Design and host podcast episodes about social justice and leadership
- Edit podcast episodes using Adobe Audition

### LEAD 360 Facilitator

Northeastern Uni. | Jan 2020 - March 2020

- Facilitate an 8-week long seminar exploring social issues and the role of leadership to influence change

## SKILLS

75% Proficient | 100% Highly Proficient

### Engineering Programs

SolidWorks	100%
AutoCAD	75%
MATLAB	75%

### Technical Skills

Laser Cutter	100%
Machine Tools	75%
Instron Machine	75%

### AUX Apps

Adobe Audition	100%
Premiere Pro	100%
Microsoft Office	100%

### Languages

English  
French

### Activities

Guitar, Violin  
Reading, Writing

## REFERENCES

### Jeffrey Musacchio

Waters Corp.  
978-844-0497  
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### Adam Glick

Hasbro  
508-259-3636  
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### Mika Morikawa

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