

# Lauren Fujishima

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## EDUCATION

### NORTHWESTERN UNIVERSITY

Evanston, IL • 2018 - 2022

- B.S. in Manufacturing & Design Engineering (ABET accredited)
- Double Major in Art Theory & Practice
- GPA: 3.73

## SKILLS

- CAD: Creo, Solidworks, Siemens NX
- PTC Windchill
- DFMA
- 3D-printing: FDM, SLA
- Programming: MATLAB, Fortran, Python, bash
- Machine shop tools
- Adobe Illustrator, Procreate, MS Office

## RELEVANT EXPERIENCE

### ASSOCIATE DESIGN ENGINEER

RUBBERMAID COMMERCIAL PRODUCTS, NEWELL BRANDS • JUL 2022 – JAN 2023

Designed and prototyped plastic parts for manufacturing and assembly based on functional, usability, and cost requirements; created and updated CAD models, assemblies, and drawings in Creo and Solidworks.

### PRODUCT DESIGN ENGINEER

NORTHWESTERN UNIVERSITY • SEP 2021 – JUN 2022

Created a new lighting product from a team-identified white space; conducted and analyzed benchmark and user tests; identified unmet needs; prototyped and refined designs; created a manufacturing plan.

### MOON FORMATION RESEARCHER

NORTHWESTERN UNIVERSITY • JUN 2019 – MAY 2022

Explored moon formation using a numerical simulator (SyMBA); wrote programs in Fortran, Bash, and MATLAB to increase simulation complexity; ran and analyzed simulations; identified conditions that produce multi-moon systems; presented findings at the annual Division for Planetary Sciences conference.

### R&D INTERN

NEWELL BRANDS • JUN 2021 – AUG 2021

Designed, conducted, and analyzed carbonation retention tests on reusable bottles and travel mugs; conducted drop tests and thermal insulation tests; created a design guide to shorten the development process.

### PAYLOAD MECHANICAL ENGINEER

NORTHWESTERN UNIVERSITY ROCKETRY SOCIETY • SEP 2020 – MAY 2021

Mechanical team lead for the design, testing, and fabrication of a robotic lander for NASA's Student Launch rocketry competition; created CAD; conducted static structural stress analysis using Ansys; 3D-printed prototypes; spent up to 20 hours per week in the shop using a CNC mill, conversational mill, and other machine tools.

### MARS 2030 MATERIALS ENGINEER

NORTHWESTERN UNIVERSITY • APR 2019 – JUN 2019

Researched, conceptualized, and compression- and heat-tested soil mixtures to design one suitable for sintering bricks for rocket launch pads on Mars; collaborated with group members and an employee at SpaceX.

## HONORS & ACHIEVEMENTS

### CREO FUNDAMENTALS CERTIFICATION

PTC UNIVERSITY • 2022

### CREO SPECIALIZATION BADGES

PTC UNIVERSITY • 2022

Badges for assembly, modeling, surfacing, documentation, sheet metal, and cabling.

### FARICY AWARD FOR ACHIEVEMENT IN THE ARTS

NORTHWESTERN UNIVERSITY • JUN 2022

### BREAKING GLASS TEAM AWARD

NORTHWESTERN UNIVERSITY • 2022

Recognizes exceptional design and rigor.

### MURPHY SCHOLARS PROGRAM

NORTHWESTERN UNIVERSITY • 2019 – 2022

Supports self-directed engineering projects.

### LEVEL 1 HIGH-POWER ROCKETRY CERTIFICATION

NATIONAL ASSOCIATION OF ROCKETRY • 2019