

Emily Broude

Project Manager & Engineer



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EDUCATION

M.S. Mechanical Engineering
Carnegie Mellon University

05/2019

GPA: 4.0

B.S. Mechanical and Biomedical Engineering
Carnegie Mellon University

12/2019

GPA: 3.8

CERTIFICATIONS

Lean Six Sigma Black Belt

02/2021

Six Sigma Solutions and Johnson & Johnson Supply Chain Academy

SKILLS

Creo

Solidworks

Smartsheet

Agile

MATLAB

Arduino

Rapid Prototyping

Microsoft Office

C++

Python

Minitab

WORK EXPERIENCE

R&D LDP Project Manager

RAD Surgical Robotics, Johnson & Johnson

07/2022 - Present

Monarch Program Management

- Leading tiger team to complete first article inspections on 305 components to support Monarch Urology first in human clinical study
- Managing development of a Monarch Tools production release to ensure device calibration accuracy
- Improving Program Management efficiency by creating streamlined trackers and project dashboards

R&D LDP Engineer

DePuy Synthes Spine, Johnson & Johnson

10/2021 - 07/2022

Teligen Product Development

- Worked with Product Development and Quality Engineering teams during validation and design transfer for high priority Spine project
- Interfaced with suppliers and manufacturing teams to complete process validations and ensure device quality
- Supported team in completing design RTM and DFMEA lines to prepare for product launch

R&D LDP Engineer

World Without Disease Accelerator, Johnson & Johnson

03/2021 - 10/2021

Sensors & Wearables

- Worked with Sensors & Wearables team on design and testing of Project Kangaroo, a solution for early diagnosis of Type 1 Diabetes
- Developed calibration process to ensure device quality and accurate glucose and ketone readings
- Researched and presented intellectual property landscaping on tech companies to analyze their market approach and identify possibilities for partnerships

R&D LDP Engineer

DePuy Synthes Trauma, Johnson & Johnson

02/2020 - 03/2021

Upper Extremity R&D

- Conducted distal radius anatomy study with goal of characterizing over 400 CT scans to drive the design of new two-column volar plate to treat fractures of the distal radius
- Developed program in MATLAB to automatically align bone scans and output measurements for eight key anatomic parameters
- Designed various surgical instruments as part of new wrist treatment system, iterating through design process based on surgeon feedback and requirements

R&D LDP Intern

DePuy Synthes Trauma, Johnson & Johnson

05/2019 - 08/2019

Foot & Ankle R&D

- Investigated feasibility and effectiveness of new screw thread technology with possible applications in trauma procedures
- Supported cross-functional team on product launch of new screw system through validation and final design review
- Designed and developed low volume parts requested by surgeons, including customized drill bits and new attachments for existing product