

# Mohsin Haider

## EDUCATION

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**Duke University, Pratt School of Engineering**  
B.S.E Mechanical Engineering

*Expected May 2023*  
*Cumulative GPA: 3.85/4.0*

## EXPERIENCE

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**Apple**  
*iPhone Product Design Intern*

*Cupertino, CA*  
*May 2022—Aug 2022*

**Apple**  
*Apple Watch Product Design Intern*

*Remote*  
*Jan 2021—Sept 2021*

- Led mid-stage development for the Apple Watch Ultra barometric vent (b-vent) membrane.
- Improved b-vent water exposure performance via die-cut design and material investigation.
- Worked with cross-functional teams to improve vendor-level water exposure test procedures.

**PROTECT3D**  
*Product Design Intern*

*Durham, NC*  
*Oct 2021—Dec 2021*

- Led product development for custom medical device category from concept to patient trial.
- Investigated SLA and DLP printer resin options for product material selection.

**Blur Product Development**  
*R&D Engineering Intern*

*Cary, NC*  
*May 2020—Aug 2020*

- Designed a stepper motor-based test fixture in SolidWorks for use in virus and bacteria labs.
- Generated BOMs and engineering drawings, communicating with machinists and manufacturers.

## PROJECTS

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**Tiny Mobile Smart Home**  
*Design & Technical Lead, Senior Design*

*Durham, NC*  
*Aug 2022—Present*

- Led product conceptualization for a trailer-mounted weekend getaway vehicle/smart home.
- Established design direction and criteria for a team of 35 mechanical engineering seniors.

**Retractable Heelys**  
*Designer and Fabrication Engineer, Product Design Class*

*Durham, NC*  
*Jan 2022—May 2022*

- Used Fusion 360, waterjet cutting, and CNC milling to design and manufacture a custom functional pair of retractable roller heel shoes.

**Electric Pennyboard Attachment**  
*Designer and Fabrication Engineer, Independent Project*

*Durham, NC*  
*Sep 2019—Aug 2020*

- Designed and fabricated a Bluetooth-enabled, unintrusive motor attachment to motorize Penny boards using Fusion 360.

**Smart Toilet Seat**  
*Designer and Fabrication Engineer, Research Project*

*Durham, NC*  
*Jun 2019—Dec 2020*

- Designed and fabricated patent-pending sensor embedded toilet seat prototypes using Fusion 360 and Solidworks FEA.

## SKILLS AND EXPERTISE

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### Skills and Technical Knowledge

- **Design:** NX, SolidWorks, Fusion 360, CAD, FEA, DFM, GD&T, Drafting, CAM, CNC Milling, 3D Printing
- **Programming:** Python (*Intermediate*), Arduino (*Intermediate*)
- **Soft Skills:** Flexibility, Problem-Solving, Communication, Collaboration, Interdisciplinary Work

**Interests:** Product Design, Consumer Products, Health Technology, Music Production, Soccer, Gaming, Skateboarding