

# Michael R. Kugler

Aspiring Engineer | Innovator | Leader

A technical minded entrepreneur, aimed at using unique skills and abilities in the field of engineering to better the lives of others

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## EDUCATION

### B.S. Mechanical Engineering

University of Pittsburgh

08/2018 - Present

Swanson Scholar, Major GPA: 3.54

Certificates:

- Innovation, Product Design, and Entrepreneurship
- Stephen R. Tritch Nuclear Engineering Program

## WORK EXPERIENCE

### ETC Apprentice

Carnegie Mellon University

04/2019 - Present

Entertainment Technology Center

Achievements/Tasks

- Develop interactive virtual and augmented reality experiences for labs within the Pittsburgh region
- Aid in framework development for "virtual museum" space in collaboration with Carnegie Museums of Pittsburgh
- Enhanced tutoring software to include augmented reality and increase student engagement

### Undergraduate Teaching Assistant

University of Pittsburgh

08/2020 - Present

Swanson School of Engineering

Achievements/Tasks

- MEMS 0024 (Introduction to Mechanical Engineering Design): Lead multiple lab sections, hold weekly office hours, and grade student assignments
- MEMS 1015 (Rigid Body Dynamics): Hold weekly office hours, offer review sessions, aid in grading student assignments (projects, quizzes, and exams)

## ORGANIZATIONS

### Design Hub

Lead a team working under the supervision of surgical oncologists at UPMC to innovate headlamp to aid in pointing to extremities in a teaching setting

### American Society of Mechanical Engineers (ASME)

Chapter Officer; National Member

### Classroom to Community

Continuation of SSOE Design Expo Project under the guidance of engineering professors, industry professionals, and recent alumni

## STARTUPS

### LockRx LLC (08/2016 - 01/2021)

- Led a team in developing a patent pending pill dispensary system aimed at preventing abuse of highly addictive narcotics
- United States Patent and Trademark Office: "Biometric Pill Dispensary System" (16/000,533)

## TECHNICAL SKILLS

### Modeling Software

AutoCAD, Inventor, Fusion 360, EAGLE, Revit, SOLIDWORKS, Mastercam, CorelDRAW

### Computing Software

Microsoft Office, Windows, macOS, Linux

### Programming Languages

HTML, C, C++, C#, Unix, Python, MATLAB

### Certifications in Progress

Autodesk Inventor Certified Professional, SOLIDWORKS CSWP, LEED Green Associate

## SOFT SKILLS

Communication

Time Management

Public Speaking

Leadership

Fast Learner

Teamwork

Problem Solver

## HONORS & AWARDS

### Frank E. Mosier Engineering Scholar

University of Pittsburgh

### Swanson School of Engineering Design Expo Winner

University of Pittsburgh

- Developed an attachment to manual wheelchairs to aid in transfers and decrease related injuries

### Dean's Honor List

University of Pittsburgh

- Spring 2020, Fall 2020

## VOLUNTEER WORK

### Webmaster

Develop and maintain webpages for the German American National Congress and the Pennsylvania Association of School Resource Officers

### Event Organizer

Helped lead events for the South Fayette / Bridgeville Relay for Life benefiting the American Cancer Society

### Sponsor

Make financial and time commitments to the South Fayette Foundation for Excellence, benefitting the South Fayette Township School District

### Finance Committee

Verify annual receipts, deposits, and payments for the Pittsburgh chapter of the German American National Congress