

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

✉ mrkugler@pitt.edu

📞 (412) 996-0660

📍 Pittsburgh, PA

🌐 mrkugler.com

🌐 linkedin.com/in/mrkugler

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 for 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