

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

EDUCATION

B.S. Mechanical Engineering University of Pittsburgh

08/2018 - 04/2022

Swanson Scholar, Major GPA: 3.61

Certificates:

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

WORK EXPERIENCE

Reactor Internals Intern Westinghouse Electric Company

05/2021 - Present

Cranberry Township, PA

Achievements/Tasks

- Currently working in the Reactor Vessel Lower Internals Design/Analysis Department within Component Engineering, Global Engineering Services
- Ensuring safe domestic and international operation of nuclear power plants

Undergraduate Teaching Assistant University of Pittsburgh

08/2020 - Present

Swanson School of Engineering

Achievements/Tasks

- Lead lab sections, hold weekly office hours/review sessions, and grade student assignments in the following classes in the Mechanical Engineering and Materials Science Department:
- ENGR 1700 (Introduction to Nuclear Engineering); Fall 2021 under the direction of Dr. Thomas Congedo
- MEMS 1015 (Rigid Body Dynamics); Spring 2021, Summer 2021, Spring 2022 under the direction of Dr. Tony Kerzmann
- MEMS 1014 (Mechanical Measurements I); Fall 2021 under the direction of Dr. John Whitefoot
- MEMS 0024 (Introduction to Mechanical Engineering Design); Fall 2020 under the direction of Dr. William Clark and Dr. John Whitefoot

ETC Apprentice Carnegie Mellon University

04/2019 - 03/2020

Entertainment Technology Center

Achievements/Tasks

- Developed interactive virtual and augmented reality experiences for labs within the Pittsburgh region
- Aided 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

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

Engineer in Training - FE Exam Scheduled (May 2022)

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, Spring 2021, Fall 2021

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)