

KEVIN M. WELDON

Pittsburgh, PA
kmfweldon [at] gmail.com | +1 (724) 953-8570

Education

Technische Universität München MSc, Computational Mechanics, <i>Thesis Supervisor: Dr.-Ing. Mirjam Lainer</i>	Munich, Germany 2023 – 2026
University of Pittsburgh (graduated <i>magna cum laude</i>) BSc, Mechanical Engineering, Nuclear Engineering Certificate	Pittsburgh, Pennsylvania 2015 – 2019

Experience

Professional Experience

Westinghouse Electric Company Mechanical Engineer II, <i>Structural Design & Analysis</i>	Cranberry, Pennsylvania 2022 – Present
FS-Elliott Applications Engineer Salesforce Systems Engineer	Export, Pennsylvania 2019 – 2022 2022

Research Experience

Dr. Anne Robertson Lab , University of Pittsburgh Research Assistant	Pittsburgh, Pennsylvania 2019
DAAD RISE , Hochschule Kaiserslautern Research Intern	Pirmasens, Germany 2018
Dr. Jeffrey Vipperman Lab , University of Pittsburgh Undergraduate Research Assistant	Pittsburgh, Pennsylvania 2017 – 2018

Student Internships

Tesla Production Control Intern, <i>Equipment Engineering</i>	Fremont, California 2018
Kennametal Engineering Intern	Latrobe, Pennsylvania 2017

Skillset

Software: ANSYS Workbench, ANSYS APDL, Arduino, AutoCAD, Autodesk Inventor, C/C++, CATIA V5, COMSOL, GitLab, HTML, Jira, LaTeX, Lotus Notes, MATLAB, Navisworks, Python, PyTorch, Salesforce, Siemens NX, SolidWorks

Soft Skills: project management, customer interface, project estimating, fieldwork, vendor management

Languages: English (native), German (B2)

Service & Community

TUM Fachschaft BGU , International Student Committee, Mentor	2023 – 2025
Pitt German Club , Vice President	2018 – 2019
Pitt Human-Powered Vehicle Team , Vice President/Business Manager	2017 – 2018
Boy Scouts of America , Eagle Scout	2015

Projects

MSc Thesis: “Reducing Corner Singularities in Soil Models with the Wave Based Method and Special-Purpose Enrichment Functions” (2026)

TUM Software Lab: “Tri-Modal Point Clouds for Digital Twin Enrichment” (2024)

BSc Senior Design: “Design of a Human-Powered Vehicle Drivetrain” (2018)

Pitt DesignHub: Surgeon armrest prototype, in coordination with UPMC otolaryngology team (2017)