

Robert Dieter II

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EDUCATION

Northwestern University

Master of Science, Structural Engineering

Bachelor of Science, Mechanical Engineering

Evanston, IL

June 2025

June 2025

London School of Economics and Political Science

Summer Program, Data Engineering

London, UK

July 2023

TECHNICAL SKILLS

Coding: Python, MATLAB, R/RStudio, CircuitPython

Software: SolidWorks, Fusion 360, Siemens NX CAD & CAM, Microsoft Office 365, Abaqus

Prototyping and Manufacturing: 3D printing (FDM, SLA, SLS), laser cutting, injection molding, CNC machining, microcontrollers & embedded circuitry, common shop tools

PROJECTS

Simulated Carwash Training System | *National Carwash Solutions*

September 2024 – March 2025

- Designed and constructed a training board to teach electrical troubleshooting in a safe, controlled environment while also reinforcing best safety practices
- Utilized SolidWorks to model and shop tools/3D printers to produce a miniature carwash, preparing trainees for problems they are likely to encounter in the field
- Integrated electrical components (relays, PLCs, etc.) and accompanying errors to enhance the learning experience
- Maintained accurate documentation of 50+ weekly team/client meetings to ensure timeliness

The Cosmic Cone Project | *Computer Integrated Manufacturing*

January 2025 – March 2025

- Created a two-part assembly to maximize the capabilities of CNC machining and injection molding technologies
- Leveraged NX CAD to model the parts and NX CAM to program the machining operations
- Successfully injection molded 50+ assemblies using molds created on a 3-axis CNC machine
- Employed metrology concepts to analyze and evaluate production data against specified GD&T and assembly fits

WORK EXPERIENCE

RWG Engineering

Summer Engineering Intern

Wheaton, IL

June 2024 – August 2024

- Created plan & profile (P&P) sheets in AutoCAD to effectively communicate construction designs and specifications with the team and client
- Enabled several renewal projects at commercial sites by reviewing and applying updated codes and constraints to ensure compliance
- Used AutoCAD to digitize paper plans and annotations to establish consistency across the team and create digital records for later reference

Wheaton Academy

Maker Camp Leader

West Chicago, IL

Summers 2021-2023

- Led hands-on activities for 24 middle school students in mechanical engineering disciplines, such as guiding them through construction of their own FDM 3D printers for use throughout the camp
- Mentored students in the use of CAD software to create their own models, introducing technical design skills
- Organized several design competitions to reinforce the design process in an exciting and engaging manner
- Created a 3D printing guide by compiling useful beginner resources to support the students' continued success using their 3D printers after the camp concluded

LEADERSHIP & VOLUNTEERING

Reformed University Fellowship

President

Evanston, IL

July 2023 – August 2024