

Michael Doyle

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EDUCATION

University of Notre Dame | Notre Dame, IN

May 2029

Bachelor of Science

GPA: 3.16

Computer Engineering | French and Francophone Studies

RESEARCH AND TECHNICAL EXPERIENCE

Wireless Institute | Notre Dame, IN

January 2026 – May 2026

Research Assistant

- Established an end-to-end FPGA development workflow for the RadioHound SDR project, enabling HDL module authoring in Python and the generation of synthesizable Verilog code
- Instantiated a Python-generated module into an AMD Vivado project; validated signal output on a Zynq-7000 SoC against a 40 MHz clock using oscilloscope capture and MATLAB waveform reconstruction
- Selected a 4-tool cross-platform toolchain (Amaranth, YoWASP/Yosys, Icarus Verilog, Surfer); published as an open-source repo and technical paper for incoming research assistants

Engineering Leadership Council | Notre Dame, IN

April 2026 – Present

Website Manager

- Maintain and deploy the council's public website, handling content changes, graphic variations, and calendar updates through a Git-based Netlify pipeline

Machine Learning for Engineers | Dublin, Ireland – Engineering Study Abroad

June 2026 – July 2026

Project Team Member

- Built and evaluated kNN, ridge, and random-forest models to predict residential energy loads from architectural features, achieving an R^2 of 0.72 on heating load
- Deployed the model two ways: a Gradio app on Google Colab and a self-hosted instance for interactive inference

Christ the King Parish | Haddonfield, NJ

Seasonal, October 2021 – May 2025

Audio/Visual Technician

- Configured projection and livestreaming systems for weekly services, managing video encoding, audio mixing, and network routing
- Greeted 20+ patrons for weekly events, and was recognized at the end of a 4-year tenure for parish contributions

ADDITIONAL EXPERIENCE

DeBartolo Performing Arts Center | Notre Dame, IN

October 2025 – May 2026

Ticket Office Attendant

- Worked with CRM software to provide efficient customer service in day-to-day point-of-sale operations

Conner Strong & Buckelew | Camden, NJ

June 2024 – August 2024

Intern

- Met with national practice leaders at the company, building an understanding of coast-to-coast business development

LEADERSHIP AND ACTIVITIES

The Observer | Notre Dame, IN

September 2025 – Present

Opinion Columnist

- Write a biweekly column focusing on faith, compassion, and intersectionality on college campuses

Model United Nations | Notre Dame, IN

September 2025 – Present

Under-Secretary-General of General Assemblies

- Responsible for administration and oversight of 2 general assembly committees, each with 40+ delegates, for the team's annual high school conference

Eagle Scout, Boy Scouts of America – Haddonfield, NJ, 2025

SKILLS AND CERTIFICATIONS

Languages: Python, C++, Verilog, SQL, HTML/CSS

Hardware: FPGA (AMD Vivado), Arduino, DAQ systems, digital logic design, embedded systems

Tools: SolidWorks CAD, Excel, Access, 3D modeling, rapid prototyping

Certifications: ISC2 Certified in Cybersecurity (CC) – May 2026