

WALTER W. KRZASTEK

908-566-6578 | wkrzaste@nd.edu | [linkedin.com/in/will-krzastek](https://www.linkedin.com/in/will-krzastek)

EDUCATION

University of Notre Dame | Notre Dame, IN May 2027
Bachelor of Science, Computer Engineering GPA: 3.667

Relevant Coursework: Discrete Math, Introduction to Embedded Systems, Fundamentals of Computing, Linear Algebra

Delbarton School | Morristown, NJ May 2023

EXPERIENCE

University of Notre Dame | Notre Dame, IN August 2024 –Current

Teaching Assistant: Discrete Mathematics (CSE 20110)

- Hosted weekly office hours and recitations where I was responsible for helping students answer questions about course material such as logic fundamentals, axiomatic set theory, functions, combinatorics, number theory, and graph theory
- Graded weekly problem sets and exams, providing feedback in a proof heavy course

Notre Dame Rocketry Team | Notre Dame, IN February 2024 –Current

Apogee Control Systems Engineer

- Designed mechanical device that creates drag to control rocket's peak apogee
- Wrote data filtration and launch algorithms to determine the correct ACS deployment time
- Interfaced Raspberry Pi logic circuit with mechanical airbrake system
- Final rocket competed in NASA's 2024 Student Launch Competition

Student Activities Office | Notre Dame, IN February 2024 –Current

Event Ambassador

- Served as the primary event ambassador for special events
- Assisted in emergency situations
- Provided courteous customer service to anyone who entered an SAO building
- Represented Notre Dame by being the eyes and ears of high-profile events on the Notre Dame campus

LEADERSHIP AND PROJECTS

Choose Your Hooper | Dynamic Website October 2024 – Present

MERN (MongoDB, Express.js, React, Node.js) Web App

- Created a crowdsourced rankings site for fantasy basketball
- Contains an interactive rankings page, trade calculator, and keep/trade/cut game
- Frontend written in React and hosted on Netlify
- Backend written in Express.js & Node.js and hosted on Render
- Database uses MongoDB hosted on Atlas with AWS
- <https://github.com/wkraz/dynasty-basketball>

EE 10200: Introduction to Embedded Systems | Notre Dame, IN January 2024 – Present

Arduino Morse Code Translator

- Used a Piezoelectric sensor to read “loud” and “soft” knocks on a door; started and stopped the knock via a button
- Wrote code in C to read the Piezo's inputs on an Arduino microcontroller and translate the knocks into English
- Sent the English output to an LCD where we displayed the word
- Compared the input knock to a “secret knock”, and lit up a green LED if they matched, and red if they did not
- <https://github.com/wkraz/MorseCodeProject>

Operation Smile | Morristown, NJ September 2021 – May 2023

Chapter President, NJ Regional Leadership Committee Member

- Led and connected Delbarton's Operation Smile club with the executives at Operation Smile
- Managed and planned 5 fundraising events at Delbarton

SKILLS

Technical: Python, C/C++, PyTorch, HTML/CSS, SQL, Java, JavaScript (Express, React, Node), MATLAB

Other: Git, Unix, LaTeX, Microsoft Office, Research, Cross-Team Collaboration, Arduino, Embedded Systems