# Klaidas Wikar

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## EDUCATION

Northeastern University, Boston, MA                                                                                             May 2027

Candidate for Bachelor of **Computer Engineering and Computer Science**                              GPA: 3.1

Courses:  Embedded Design, Electronics, Network Fundamentals, Computing Fundamentals, Object-Oriented Design, Computer Science Fundamentals 2, Cornerstone of Engineering 2, Differential Equations, Discrete Structures, Physics 2, Calculus 2

Activities & Honors: Northeastern Electric Racing (Electronics & Embedded Design sub teams), NEURobotics, Vice President of Computer Club Fall 2022-Spring 2023

Study Abroad: Northeastern University London Fall 2023-Spring 2024

## SKILLS

Programming: C++, C, JavaScript, MATLAB, HTML, CSS, Python, PyTorch, scikit-learn, Pandas, NumPy, Django (Introductory), React, React Native, Docker, Jupyter Notebook/Colab, Various protocols (TCP, UDP, SMTP)

Software: SolidWorks, AutoCAD, KiCad, Altium, Wireshark, Linux, Ubuntu

Electronics: Arduino, FPGA Prototyping, STM32 suite, Proteus suite, Soldering, Various protocols (I2C, UART, SPI)

## PROJECTS

Robot Arm Movement Using Pulse Width Modulation and ARM Ubuntu Programming                      Feb-Mar 2025

• Designed a circuit using digital logic such as registers, counters, multiplexors, adders

• Used Quartus prime software to design circuit and deployed on an FPGA board to prototype

• Controlled robot arm by producing various PWM signals

• Programmed the robot's movement in C++ using memory-mapped I/O and cross-compiled to Ubuntu which runs on an ARM processor

Deep Learning for Parking Lot Segmentation                                                               Dec 2024-Jan 2025

• Developed a custom ML model and dataset using ArcGIS API and achieving 81% accuracy using YOLOv8 & Pytorch

• Used NumPy, Pandas, and matplotlib to visualize, compute, and configure data and model results

• Programmed a website using Django and React to be hosted via AWS

Bluetooth Door Opener                                                                                                        Mar 2024

• Designed a device that can remotely operate common door handles

• Modeled a custom housing and a rack & pinion system via SolidWorks & AutoCAD that was then 3D printed and used rapid iteration workflow

• Programmed Bluetooth connectivity by learning Bluetooth module datasheet and programmed servo operation via Arduino

## JOB EXPERIENCE

Friends and Family of Nabeela Syed – Field Representative                           Oct – Nov 2022 & Jun-Aug 2024

• Collected and analyzed voter data to target outreach efforts and improve campaign strategy hitting 350+ datapoints a day

• Conducted door-to-door canvassing to communicate the candidate's platform and built relationships with constituents with a reach of 40-70 doors a shift

United Parcel Service – Package Handler                                                                            Jun-Aug 2023

• Demonstrated initiative by independently learning the operation of Honeywell RFID computers and related logistics network and subsequently took on related responsibilities

• Collaborated with 6+ team members, ensuring efficiency and meeting tight deadlines in a fast-paced environment

• Assisted in streamlining package flow by resolving technical issues related to Honeywell system

## INTERESTS

Urbanism, environmental volunteering, video games, and my three cats