

# Evangelos Barous

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## Education

Northeastern University, Boston, MA

May 2025

Bachelor of Science majoring in Electrical Engineering, Computer Engineering with Robotics Minor (GPA 3.56)

## Technical Skills

**Electronics:** Arduino | basic circuit design | soldering | oscilloscopes | digital multimeter | function generators

**Programming:** C++ | C# | Python | Java | MATLAB | Simulink | SystemVerilog | Git | Bash | MEEP

**Software:** AutoCAD | SOLIDWORKS | PSpice | Linux OS | Autodesk Inventor | Fusion360 | Tinkercad | Multisim |  
Atlassian Bamboo | Visual Studio | Conan | Docker | CI/CD | Ubuntu | Unit Testing

**Languages:** Fluent in Greek, Working knowledge Spanish

## Work Experience

MORSE Inc., Boston, MA

July – December 2024

Embedded Engineer

- Added backend and frontend functionality for a screen that allows for new methods and improvements for setting the release point
- Translated a C++ and Python repository into a C# equivalent for configuring a new radio and ground station for testing

Collins Aerospace, Cedar Rapids, IA

June – December 2023

Software Engineering Co-op (Worked on DoD project with Secret level clearance)

- Created testing and user interfaces for the datalink portion of the TCTSII and CRIIS air combat training systems using Java, Python, C++, Linux, Docket, and Git
- Created a new repository containing unique Conan package, virtual environment setup and specifications for Bamboo build testing
- Created a new test suite for TCTSII subsystems that uncovered inefficiencies in those subsystems
- Added functionality permitting more efficient identification of potential message drops systemwide
- Worked under an AGILE system

Scientific Systems Corporation Inc., Woburn, MA

July – December 2022

Autonomous Systems Engineer (Worked on DoD project)

- Parsed through csv files to generate figures and calculate integrals of simulations with Python
- Parsed through json files to create files used to generate new simulations with Python
- Created module that generates particle models and uses kernel density estimations to generate future location points on a map for other modules' use in C++

NEU, Undergraduate Research Assistant II, Boston, MA

April – Present

- Determine intensity peak by examining txt file data and creating graphs of the matrix data
- Create a Python script file that parsed through, plotted the intensities of each trial and graphed all peaks of each txt file
- Determine nanobeam cavity's light storage by sending light waves through a nanobeam using computer simulations and scripts and gathering results under guidance of Dr. Xufeng Zhang

NEU, Undergraduate Research Assistant, Boston, MA

September – December 2021

- Examined throughput and goodput data from a 60 GHz router, using Linux OS scripts, to evaluate 60 GHz phone sectors
- Performed router experiments to measure the throughput and goodput data for each sector of a 60 GHz phone
- Contributed to the design of a 5G and 6G millimeter wave networking research project under guidance of Dr. Dimitrios Koutsonikolas to create "An Open, Programmable Platform to Conquer the 5G and 6g Wireless Spectrum"

## Engineering Projects

Biomedical Signal Amplifier

November 2021

- Used instrumental and operational amplifiers to create an EKG
- Used A/D conversion to feed signal into a MATLAB program

"Archetype" Keyboard

November 2021

- Used 3D printing, Arduino, and soldering to create a specialized keyboard for patients with arthritis

Codebreakers

May 2021

- Created a variation of the game Mastermind using Arduino and basic circuit design
- Used potentiometers and push buttons to create a user interface with the computer