

JOEL GONZALEZ

bgonzale@andrew.cmu.edu ◇ <https://github.com/b-joel-gonzalez> ◇ b-joel-gonzalez.github.io

EDUCATION

Carnegie Mellon University (CMU)

Pittsburgh, PA

College of Engineering

2021 - Present

- Ph.D. Student in *Electrical and Computer Engineering*
- M.S. in *Electrical and Computer Engineering*, concentration in *Integrated Systems* — May 2024
- Research Advisor: Dr. L. Richard Carley
- Research Interests: integrated systems design, device fabrication, rapid prototyping of computer systems, RF engineering, metrology and instrumentation

University of Pennsylvania (UPenn)

Philadelphia, PA

School of Engineering & Applied Science

2015 - 2021

- M.S.E. in *Robotics* — May 2021
- B.S.E. in *Computer Science*, minor in *Mathematics* — December 2019

TEACHING EXPERIENCE

Semesters as lead TA denoted by *.

- (CMU) 18-427/727: *Board-Level RF Systems for IoT* — Fall 2022*, Fall 2023*, Fall 2024*, Fall 2025*
- (CMU) 18-540/745: *Rapid Prototyping of Computer Systems* — Spring 2023
- (UPenn) ESE450/451: *ESE Senior Design* — Fall 2019, Spring 2020, Fall 2020*, Spring 2021*
- (UPenn) ESE350/519: *Embedded Systems Lab* — Fall 2020, Spring 2021*
- (UPenn) ESE190/M&TSI: *Introduction to Hardware/Software Lab* — Spring 2019, Summer 2021*
- (UPenn) CIS371/501: *Computer Architecture* — Fall 2019, Spring 2020
- (UPenn) CIS380/548/CIT595: *Operating Systems* — Fall 2019, Spring 2020*, Summer 2020*
- (UPenn) CIS240/CIT593: *Introduction to Computer Systems* — Fall 2018, Spring 2019, Summer 2019

WORK EXPERIENCE

MIT Lincoln Laboratory

Lincoln, MA

Division of Communication Systems

May 2023 - August 2023

- Summer 2023 research intern working on RF systems design and analysis for communication systems
- Programmed in Python and used RF hardware to analyze RF networks, spectra, and phase noise
- Internship completed as part of employer sponsorship via GEM Fellowship

ACTIVITIES, AWARDS, AND RECOGNITIONS

CMU:

- Carnegie Institute of Technology Dean's Fellow
- Recipient of the GEM Fellowship, with sponsorship from MIT Lincoln Lab for Summer 2023
- Completed the Future Faculty Program in Fall 2022 (Eberly Center for Teaching Excellence and Educational Innovation)
- Selected to participate in the 2022 NextProf Pathfinder workshop hosted by UMich and UCSD
- 2022-25 CMU Robotics Club Officer

UPenn:

- 2019-20 CIS J.P. Eckert Fellow
- 2020 inductee of the CIS Max Mintz Undergraduate TA Hall of Fame
- Honorable Mention for the 2021 Penn Engineering Outstanding Teaching Award
- Recipient of the Summer 2020 TA Award for Excellence in Student Support with Distinction
- Recipient of the 2019 Littlejohn Scholars Summer Research Grant
- Recipient of the 2018 Penn Engineering Exceptional Service Award
- Recipient of the 2017 Penn Undergraduate Research Mentoring (PURM) Grant