# JOEL GONZALEZ

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#### **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
- o 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

2015 - 2021

School of Engineering & Applied Science

- 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

- o Recipient of the 2017 Penn Undergraduate Research Mentoring (PURM) Grant
- o Recipient of the 2018 Penn Engineering Exceptional Service Award
- Recipient of the 2019 Littlejohn Scholars Summer Research Grant
- 2019-20 J.P. Eckert Fellow
- o 2020 inductee of the CIS Max Mintz Undergraduate TA Hall of Fame
- Recipient of the Summer 2020 TA Award for Excellence in Student Support with Distinction
- Honorable Mention for the 2021 Penn Engineering Outstanding Teaching Award
- Carnegie Institute of Technology Dean's Fellow
- Selected to participate in the 2022 NextProf Pathfinder workshop hosted by UMich and UCSD
- Completed the Future Faculty Program in Fall 2022 (Eberly Center for Teaching Excellence and Educational Innovation, Carnegie Mellon University)
- Recipient of the GEM Fellowship, with a sponsorship by MIT Lincoln Lab for Summer 2023
- 2022-25 CMU Robotics Club Officer