Noah Del Coro

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Education

University of Michigan

Master of Science in Electrical Engineering, April 2022
Area of study: Robotics

GPA: 3.91/4.00
Relevant Coursework: Computational Data Science and Machine learning, Robot Operating Systems

University of Connecticut

Bachelor of Science in Engineering, May 2020
Majors: Electrical Engineering & Computer Science

GPA: 3.98/4.00
Achievements: Summa cum laude, Honors Program, STEM Scholar, New England Scholar, Outstanding Student IEEE Members of Connecticut for 2020 (state-wide)

Relevant Coursework:

- Artificial Intelligence
- Machine Learning
- Microprocessors
- Introduction to Robotics
- Systems Programming
- Systems Laboratory

Work Experience

University of Michigan

Graduate Student Instructor, Jan 2021–Present

- Guiding students in a hands-on robotics course and troubleshooting their robot designs

Computer Science Tutoring

July 2020–Present

- Teaching CS topics (data structures, OO design, etc.) to high school and college students

NASA Ames Research Center

Aeromechanics Intern, Summer 2019

- Fabricated motor controller for weight-constrained drones (collaboration with NASA-JPL)
- Researched integration of new motor controller for Mars Science Helicopter
- Continued as senior capstone project

iDevices Inc

Software Engineering Intern, Summer 2017

- Implemented and tested new features for iDevices' IoT smart home Android app

Leadership

UConn IEEE

Co-President, May 2018 – May 2020

- Built large-scale electronics and robotics projects in a team environment
- Designed and presented workshops on Simulink, Arduino, and electronics concepts

UConn Astronomy Association

Technical Officer, May 2018 – May 2019

AIAA

CanSat Flight Software Lead and Member, October 2017 – May 2018

Research Experience

Laboratory for Progress (Dr. Chad Jenkins)
Research Assistant, Jan 2021 – Present

Robotics and Controls Laboratory (Dr. Ashwin Dani)
Research Assistant, Jan 2020 – June 2020

- Implemented convolutional neural networks (CNNs) for object detection
- Designed methods of using 3D models to train CNNs, with a focus on consistent detection despite occlusions

LINKS Laboratory (Dr. Shalabh Gupta)
Research Assistant, January 2018 – May 2018

- Engineered a multi-robot communication & localization system with the Player interface

Academia

Oral Presentations

N. Del Coro, J. Scoggin, H. Silva, and A. Gokirmak. “Thermoelectric Effects in a Double Mushroom Phase Change Memory Cell”. APS March Meeting. March 2019. [link]

Poster Presentations

N. Del Coro, J. Scoggin, and A. Gokirmak. “Thermoelectric Effects in Phase Change Memory Cells: A Computational Analysis on Double Mushroom Cells” MRS Spring Meeting. April 2019. [link]

Projects

NASA Senior Capstone, *Co-Lead*.
Integrating RPM feedback on ESC's for improved attitude control (of interest to Mars Helicopter JPL team) [link]

WickAway, *Embedded Engineer.*
Developed code & hardware for an automatic candle extinguisher

Microprocessors Honors Project, *Developer.*
Built “landmine”-finding robot with ATMEL chipset

Systems Analysis Honors Project, *Creator.*
Modeled quadrotor dynamics in Simulink

Fingerprint Scanning Garage Door Opener, *Creator*.
Won $10K in prizes for documenting projects [link]

Skills

- *Competent in:* Python, Java, C, Arduino, C++, MATLAB, Julia, Machine Learning
- *Experience with*: Linux, MIPS Assembly
- Proficient with machine shop tools and soldering equipment
- Experience in circuit/PCB design and prototyping with EagleCAD and PSpice