

Noah G. Dorfman

332379 Georgia Tech Station | Atlanta, GA 30332 | (856) 381-1006 | n.dorfman00@gmail.com
US Citizen | Secret Security Clearance | www.noahgdorfman.com

Education

Georgia Institute of Technology | Atlanta, GA

Bachelor of Science in Computer Engineering, GPA: 3.31
Minor in Aerospace Engineering

August 2018 – Present
Expected Graduation, May 2022

Rowan University | Glassboro, NJ

Dual-Enrollment Transfer with 30 Credit Hours, GPA: 3.56

August 2016 – May 2018

Relevant Experience

Solar Racing Powertrain Sub-Team (Team-Based)

Fall 2018 - Present

Georgia Tech Solar Racing / VIP GTSR Research Group

15 hours per week

- Responsible for all powertrain systems, from our custom driver controls to the Marand motors
- Designed a TIVA breakout / GPIO board for prototyping and testing of solar car electronics
- Designed a new CAN bus junction board to efficiently route the power train CAN line
- Built a dashboard box from Divinycell foam core and Kevlar polycarbonate to organize all low voltage systems

Solar Racing Race Operations Lead / Executive Board Member

Summer 2019 - Present

Georgia Tech Solar Racing

10 hours per week

- Preparing the team for participation in annual Formula Sun race competitions
- Organizing mock races, holding debriefs, and developing race strategies using custom simulation tools
- Involved in weekly high-level team discussion, decision making, and problem solving

Software Integration and Testing Engineer (Intern)

Summer 2019

Lockheed Martin RMS (Moorestown, NJ) / AEGIS Radar MMSP Group

40 hours per week

- Tested software changes for complex, signal processing architectures using BASH and C++
- Designed an Arduino-based radar and interceptor-missile system for a supplemental intern group project

LEGV8 Processor Design Project (Small Team-Based)

Spring 2018

Computer Architecture Course (Rowan University)

10 hours per week

- Designed a functional processor using a subset of ARM processor instructions to run on a DE0 FPGA Board
- Implemented the data path, control unit, and all individual components (memory, program counter, ALU, etc.)
- Delegated individual task assignments to 3 team members for completion of the processor data sheet

Escape Room South Jersey | Glassboro, NJ | Collingswood, NJ

June 2017 – August 2018

Electronic Puzzle Designer and Engineer

15 hours per week

- Optimized the host position's tasks by automating room functions for easier control
- Developed unique puzzles with Arduino and electronics for 5 room attractions

Morse Code Translator Machine (Individual)

Fall 2017 - Summer 2018

Glassboro Historical Society / Train Depot Restoration Committee

- Simplified learning of Morse Code for visitors of the train station/museum
- Developed a parsing algorithm based in Python for incoming "dots" and "dashes" using a Raspberry Pi, its GPIO interface, and a momentary switch
- Presented project details to Glassboro Historical Society as development ensued

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Activities

Glassboro High School Engineering Club | Glassboro, NJ

Fall 2014 – Spring 2018

President

20 hours per week

- Managed 2 project/competition teams: SumoBots and Pumpkin Chunkin'
- Scheduled and presented monthly meetings for 20 members

Rowan University's IEEE Student Branch | Glassboro, NJ

Fall 2017 – Spring 2018

'ProfHacks' Hackathon Committee

10 hours per week

- Budgeted \$20,000 to improve "hacker" experience for over 250 guests

Georgia Tech's "The Hive" | Atlanta, GA

Fall 2018 – Spring 2018

Peer Instructor in ECE Maker Space

5 hours per week

- Teaching students of all disciplines to use makerspace shop equipment and ECE specific tools

STEM Dual-Enrollment Program | Glassboro, NJ

Fall 2016 – Spring 2018

Student Preceptor

5 hours per week

- Assisted five students with course management and scheduling
- Tutored various subject matters in the STEM fields regularly

Glassboro VFW Post | Glassboro, NJ

Summer 2013 – Summer 2018

Volunteer

- Donated time to working carnival game fundraiser at local fairs
- Marshalled for VFW parade committee

Glassboro High School Boy's Tennis | Glassboro, NJ

Fall 2014 – Spring 2018

Varsity

20 hours per week

- Worked with my team to record 4 winning seasons

Skills

Programming: Python, C++, C, ARM and MIPS Assembly, JavaScript, HTML, CSS, VHDL

Platforms: Windows, Mac, Linux

Software: MS Office, Unity, Altera Quartus II, Altium Circuit Maker, GitHub, IBM Change Management Suite

Hardware: Arduino, Raspberry Pi, DE0 FPGA Board, Soldering, Benchtop Electronic Equipment

Communication: Technical Reports, Datasheets, Schematics, Presentations