Noah G. Dorfman

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US Citizen | Secret Security Clearance | www.noahgdorfman.com

Education

Georgia Institute of Technology | Atlanta, GA *August 2018 – Present*
Bachelor of Science in Computer Engineering, GPA: 3.2 Expected Graduation, December 2021

Rowan University | Glassboro, NJ *August 2016 – May 2018*
Dual-Enrollment Transfer with 30 Credit Hours, GPA: 3.6

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

President / Executive Board Member *Summer 2019 - Present*
Georgia Tech Solar (Nationally Competitive University Team) *25 hours per week*
- Leading a radically growing, engineering project team of 90+ students
- Actively pursuing improved sponsor relations resulting in an increasing, six-figure, annual budget
- Coordinating team's second cross-country race – 20 days, 5000 miles, 16 students

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.)
- Lead group, delegating individual task assignments to 3 team members

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 Morse code (GPIO input) using a Raspberry Pi
- 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

Software: C/C++, Python, Assembly, HTML/CSS/JavaScript, Linux, Git, Unity
Hardware: Embedded Systems, PCB Design, Quartus II, EAGLE, VHDL, Arduino, Raspberry Pi, FPGA, Soldering, Benchtop Equipment
Wetware: Project Management, Technical Reports, Datasheets, Schematics, Public Speaking, Event Logistics