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

Georgia Tech Solar Racing (Nationally Competitive University Team) (VIP Research)   *Fall 2018 - Present*
- **President / Executive Board Member**   *24/7 dedication*
    - 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
- **Race Operations Director / Executive Board Member**   *15 hours per week*
    - Developed strategy for 5 Mock Races with race teams of 10-15 members
    - Designed service to store JSON models on a server for GTSR's MATLAB strategy suite, SRsim
    - Organized Python refactoring of SRsim to improve manageability, usability, and performance
- **Powertrain Sub-team**   *10 hours per week*
    - Responsible for one of the most efficient EV powertrain systems in the world
    - Designed a new CAN bus junction board to efficiently route the power train CAN line
    - Built a dashboard box from foam core and Kevlar polycarbonate to organize all low voltage systems
    - Designed a TIVA breakout / GPIO board for prototyping and testing of solar car electronics

Azure Zero Trust IoT Data Collection System (Small Team-Based)   *Fall 2021 – Present*
Senior Design (Georgia Tech) / Boeing Sponsored   *10 hours per week*
- Establishing Bluetooth mesh network of Nordic IoT devices and Zero-Trust connection to Microsoft Azure
- Developing firmware to collect sensor data, securely transfer amongst mesh nodes, and push to a database via MQTT communication over LTE

Electrical Engineer (Intern)   *Summer 2021*
Milwaukee Tool (Brookfield, WI) / New Product Dev. / Elec. and Plumb. Tools   *40 hours per week*
- Implemented tool-side firmware for logging GPS location data in external flash memory of hydraulic crimper
- Integrated external GPS module into existing tool system using proprietary UART communication protocol

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

Advanced Coursework

Software: Objects and Design (A), Intro to Machine Learning (B), Adv. Prog. Techniques (Fall '21), Optimizations for Information Sys. (Fall '21), Intro to Comp. Security (Fall '21)
Hardware: Physical Foundations of Comp. Eng. (A), Math Foundations of Comp. Eng. (B), Intro to Comp. Arch. (A), Comp. Comms. (B), Embedded Sys. Design (Fall '21)

Skills

Software: C/C++, Python, Assembly, Linux, Bash, Git, Java, Web Development, Unity
Hardware: Embedded Systems, Arduino, PCB Design, Soldering, Benchtop Equipment, Verilog, FPGA
Wetware: Project Management, Technical Reports, Datasheets, Schematics, Public Speaking, Event Logistics