JUSTIN MILLER

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Education:					
Northeastern University College of Engineering: Boston, MA	Candidate in				
<u>GPA:</u> 4.0	Mechanical				
Awards/Honors: University Honors Program, National Merit Scholarship	Engineering				
Activities: Aerospace NU, Big Data Club, ASME, Northeastern RISE Expo 2020	09/2019-05/2023				
Classes: Mechanics, Thermodynamics, Diff EQ, Statics, Material Science, Physics E&M					
Mansfield High School: Mansfield, MA	Diploma				
Awards/Honors: Class Salutatorian, Harvard Book Award, National Merit Recipient	09/2015-05/2019				
Leadership: Class Treasurer, Math Team Co-Captain, Relay For Life Team Captain					
Technical Skills:					
Programming: Python MATLAB Bash C++ (Basic) SQL (Basic)					
Applications: SolidWorks SW FlowSim AutoCAD Linux OS Git Tableau					
Processes: Engineering Design Data Scraping Data Mining OOP Statistical Analysis					
Work Experience:					
CASE Assembly Solutions, Inc: Easton, MA	Test Technician				
• Efficiently and accurately tested hard and soft components of ~15 unique smart	05/2020-08/2020				
	03/2020-08/2020				
home devices to ensure quality products for clients					
Utilized remote Linux Systems to install and debug critical software Manually confirmed electronic functionality through Audio Video Bridge Testing					
Manually confirmed electronic functionality through Audio Video Bridge Testing Contact Beauty Law Powerford DI	Tl				
Contech Research, Inc: Rumford, RI	Technician's				
Analyzed quality of electrical connectors through preparation and execution of	Assistant				
rigorous mechanical, chemical, and electrical tests	06/2018-08/2018				
• Collaborated with engineers design and manufacture of PCBs for continuity testing					
• Operated and maintained 10 proprietary Mixed Flowing Gas (MFG) chambers to					
guarantee safe and accurate chemical exposure tests	~				
Big Y Supermarkets: Easton, MA	Cashier				
 Worked with peers to process grocery purchases and ensure customer satisfaction 	04/2017-11/2018				
Research and Projects:					
Automation in the Built and Living Environment Lab	Undergraduate				
 Developing open-source software to process, verify, and segment 100+ GB of 	Research				
Ecobee SmartThermostat data to improve access for civil engineering researchers	11/2019-Current				
 Incorporating object oriented design (OOD) with MATLAB to create robust 					
methods adherent to key tenets of software development					
• Utilizing the MGHPCC supercomputer through a virtual Linux environment to					
support a timely transfer and processing of large amounts of data					
 Created animated visualizations through of indoor temperature fluctuations across 					
the midwest with MATLAB; presented in Northeastern's 2020 RISE conference					
Project REDSHIFT: (Aerospace NU) Simulation and					
Generating data on aerodynamic performance through SolidWorks FlowSim	Stability Team				
Simulating launch scenarios through Monte Carlo methods in MATLAB	01/2020-Current				
Interests:					

Interests:

Optimization, Automation, Data Science, Engineering Design, Project-Based Learning, Mountain Biking

Project Website:	GitHub:	LinkedIn:
justinmiller33.github.io	github.com/justinmiller33	linkedin.com/in/justin-miller-765406194