

Professional Summary

I am a purpose-driven engineer with experience in the defense industry. I am seeking a career transition to software engineering upon completion of my service commitment to the DoD in July 2022. I believe that every person was created for something great, and I strive to treat everyone with the respect that follows that belief - both at work and in my personal life. I am currently self-learning Python.

Experience

Naval Surface Warfare Center Indian Head Division | Indian Head, MD

Project Engineer | Warhead and Propulsion Technology Branch | Feb 2021 - Present

- Supporting development of a high-tech weapon system as the Technical Lead of the warhead team by coordinating R&D test efforts and effectively communicating with manufacturing and test partners
- Managing essential project tasks and personal workload by maintaining open communication with superiors and project stakeholders
- Modifying existing warhead designs for advanced research applications through the use of Pro-E Creo CAD software, aimed at increasing weapon effectiveness

Chemical Scale-Up Engineer | Chemicals Manufacturing and Development Branch | Jun 2020 - Feb 2021

- Ensured the successful transition of various chemical processes to larger scales and facilities by providing technical assistance and effective project management skills
- Coordinated the preparation of facilities for future chemical scale-up processes by understanding current deficiencies and planning for future workload
- Began learning to program Unitronics UniLogic HMI/PLC (Human Machine Interface/Programmable Logic Controller) control system for future use in a new mid-scale development facility

Chemical Engineering Intern | Chemicals Manufacturing and Development Branch | Summers, 2017-2019

- Assisted scale-up operations including syntheses, recrystallizations, and purifications of both energetic and non-energetic material at various scales
- Managed individual project to determine an optimal filtration temperature for a future process at a large scale that minimized cooling time while ensuring operator safety and adequate product yield
- Participated in safety analyses for various chemical processes, including Process Hazard Analysis (PHA) and Operating and Support Hazard Analysis (O&SHA)

Education

B.S. Chemical Engineering | May 2020

Virginia Tech | Blacksburg, VA | GPA: 3.72

- DoD SMART Scholarship Program | Full tuition scholarship for STEM students | Aug 2018 - May 2020
- Tau Beta Pi Engineering Honor Society | Nov 2018 - May 2020
- Relevant Coursework: Simulations and Modeling (MATLAB), high-level mathematics

Leadership

Communications Minister | Catholic Campus Ministry at Virginia Tech | Jan 2019 - Dec 2019

- Supervised all external communications for the largest student body organization at Virginia Tech by delegating tasks to team of four peers
- Completed and delegated essential communication tasks including creating and distributing weekly bulletins and emails to 1,200 people, updating website and social media accounts, and leading various events put on by the community