John P. Romano II

jroma013@odu.edu

Objective: Seeking the opportunity to leverage my strong computational physics background, coupled with ever increasing knowledge in machine learning and data science to increase computational efficiency in aerodynamic simulation.

Education:

Old Dominion University, Norfolk, VA
Doctor of Philosophy – Aerospace Engineering, Aug 2022 (expected)
GPA: 3.75

University of Connecticut, Storrs, CT
Master of Science - Mechanical Engineering, Dec 2015
Concentration: Thermal and Energy Sciences
GPA: 3.77
Thesis: *Thermal Transport and Melt Pool Geometry in Metallic Powder Bed Additive Manufacturing Processes for Various Novel Engineering Materials*

University of Connecticut, Storrs, CT
Bachelor of Science in Engineering - Mechanical Engineering, May 2014
Minors in Mathematics, Computer Science
Cum Laude
GPA: 3.78

Technical Skills:

- ANSYS FLUENT
- NASA Fun3D
- OpenFOAM
- SU2
- Solidworks
- Matlab/Simulink
- Python
- R

Work Experience:

Naval Surface Warfare Center, Dahlgren Division June 2013-Present
Dahlgren, VA

- Lead, Aerodynamic Analysis Group, E21 Jan 2019 – Present
  - Chair planning committee for annual NSWCDD M&S Summit, which requires interfacing with analysts in every technical department and briefing updates to TD and other command-level stakeholders. Event operates as a one-day technical conference and receives several hundred attendees annually
  - Manage tasking and provide technical oversight for a team of 5 CFD analysts supporting aerodynamic and aerothermal heating characterizations for new projectile concepts
  - Develop Division level workforce development courses and curriculum
- CFD Analyst, E21 Mar 2017 – Jan 2019
  - Run complex 3D steady state CFD analyses of projectile designs using DoD HPC assets to provide aerodynamic characterizations across Mach, angle of attack and altitude ranges
  - Act as aerodynamic subject matter expert on various projectile development teams
- Mechanical Design Engineer, H41 June 2013 – Mar 2017
  - Perform mechanical design and prototyping work in support of weapon system integration onto existing and future USMC vehicle platforms
  - Prepare and present program update briefs to members of various USMC Program Executive Offices and Program Managers up to O6 and E9 levels