

# John P. Romano II

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Home Address:  
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**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