

Robert J Zoldos III

(703) 727-0683 | rjz0003@mix.wvu.edu | 510 Holloway St, Durham, NC 27701

EDUCATION

West Virginia University, Morgantown, WV

December 2023

Bachelor of Science in Aerospace Engineering (ABET-accredited)

Bachelor of Science in Mechanical Engineering (ABET-accredited)

Area Of Emphasis Astronautical Engineering (ABET-accredited)

TECHNICAL SKILLS

Programs: STK, ODTK, TETK CAD, Solidworks, Siemens NX, Autodesk Inventor, Ansys Workbench, Ansys Mechanical APDL, Fusion 360, Python, MATLAB, Oracle VM, XFLR5, LTSpice XVII, Microsoft Word, MS Excel, BEE, SysML, UML, Atlassian (Jira), GitHub, VSCode

PROJECTS

- Designed the data harness for the WVU SAE F1 Team: **Scheme-It, Siemens NX**
- Designed communications for a mars base to DSN on earth along with making code for a ground location system that doubles as landing beacons: **STK, MATLAB**
- Designed and built a glider that was able to glide over 30 meters: **XFLR5**
- Co-Presented at NCAFC 2024
- Designed a cellular regression solid fuel burn simulation: **MATLAB**
- Created a structure that simulated a mars orbiter with changing attitude vectors: **Simulink, MATLAB**

WORK EXPERIENCE

NextGen Federal Systems, Morgantown, WV

July 2021 – Present

Cyber Security Intern

- Used BEE integrated into STK to correct and make a collision course with a vehicle (using astrogator with height set to 0)
- Created a Python code to convert STK CVS files to COT XML files

Beyond Fences, Durham, NC

May 2023 – August 2023 & December 2023 – Present

Assistant to CEO

- Provided vaccinations and health care for animals in underprivileged areas

Trident Systems Inc, Fairfax, VA

May 2018 – August 2018

Aerospace Engineering Intern

- Work on Aerospace prototypes that would go to displays for clients

CERTIFICATIONS

STK Level 1, ANSYS

September 2022

STK Level 2, ANSYS

December 2022

ODTK Level 1, ANSYS

February 2024

TETK Level 1, ANSYS

March 2024

Ground School, Kings School

March 2024

PPL in Training, FlightGest

Current

EXTRACURRICULAR ACTIVITIES

Men's Ice Hockey Team, WVU

August 2018 – December 2023

WVU Space, AS Team Lead, WVU

August 2021 – May 2023

WVU SAE F1, DAQ Team Lead, WVU

August 2021 – May 2022

Woman's Ice Hockey Team, Goalie Coach, WVU

August 2019 – May 2023