

Bob Nimcheski

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Experience & Projects:

Northrop Grumman Supersonic Rocket Capstone (2025-Present):

- Manufacturing a 2 stage rocket capable of reaching 30,000 feet of altitude
- Performed structural analysis in the CAD files to ensure the rocket doesn't buckle
- Time management skills to meet deadlines
- OpenRocket experience

NAU High Powered Rocketry Club (2024-Present):

- Gained knowledge on the Aerospace industry
- Practiced simulating rockets through RockSim
- Learned about the different components of a rocket

Thermo-Electric Generator Research (2024):

- Research project involving improving overall hybrid electric vehicle efficiency
- Final MATLAB code determined that our design improved efficiency by 8.4%
- Assistant Team Lead

Solidworks Design Project (2023):

- Personal project involving recreating a scale size Nintendo Wii remote in Solidworks
- Learned how to work on a project as an individual

Paper Bridge Project (2022):

- Performed structural analysis to design the strongest bridge possible from paper and glue
- Final bridge was able to be loaded with roughly 100 pounds before collapsing
- Learned how to work on a project in collaboration with a team

Arizona Snowbowl (2022-Present):

- Learned to communicate very well to ensure my students understand how to ski
- Learned many safety skills and safety is one of my top priorities
- Experience in different types of work environments and general problem solving

Education:

Northern Arizona University (2022-2025)- Bachelor of Science in Mechanical Engineering

- Dean's List
- Phi Theta Kappa Honor Society member
- National Society of Leadership and Success member

Coconino Community College (2021-2022)- Associate of Business

- Business accounting and bookkeeping
- Economical knowledge

Skills:

- Solidworks, MATLAB, Word, Excel, Powerpoint, AI, OpenRocket, Prototyping

Related Coursework:

- Thermodynamics, Heat Transfer, Dynamics, Machine Design, Fluid Mechanics, Statics