

Connor Hoffmann

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SKILLS/ABILITIES

- SolidWorks
- MATLAB
- Hands on manufacturing/
machining
- Project and time management
- Written and Oral
Communication
- HTML
- Microsoft Office
- Technical Writing
- Amateur Welder
- Public Speaking
- Works well in team setting
- Organized and detail-
oriented

EDUCATION

B.S. Engineering, Mechanical Engineering – *Expected December 2021*

Northern Arizona University, Flagstaff, AZ

WORK EXPERIENCE

Electric Torque Machines – Mechanical Engineer Intern, Flagstaff, Arizona – *May 2021 to Present*

- Designs parametric CAD models of transverse flux electric motors
- Performs electromagnetic simulations on transverse flux electric motors
- Conducts design of experiments on transverse flux motors to identify advantageous qualities
- Designing outdoor facility to test 40hp transverse flux electric motors
- General design of 3D printed manufacturing aids

Enchanted Forest Spas – Pool Technician, Flagstaff, Arizona – *October 2017 to May 2021*

- Managed multiple pools and spas at high-end golf club
- Conducted water titration tests to ensure safe pool chemistry twice daily.
- Performed maintenance on large pool pump systems
- Maintained diligent daily logs of pool statistics
- Passed county inspections for multiple pools and spas
- Performed chemical weight calculations and unit conversions

EDUCATIONAL PROJECTS

General Atomics CubeSat Test Fixture – *January 2021 to present*

- Key contributor alongside team of 4 engineering students for Senior Project (Capstone)
- Objective is to design, build, and test a fixture which mounts a CubeSat satellite to spherical bearing
- Responsible for the research of center of gravity and rotation dynamics
- Financial Manager in charge of the teams \$8,000.00 budget
- Responsible for the design and programming of the General Atomics capstone website using HTML

Tennis Ball Launcher Project – *Spring 2018*

- Designed and 3D printed multiple components
- Won award for most Technically Aesthetic Design

Honeywell Leadership Academy – *Spring 2015*

- Participated in team building and leadership activities at the U.S. Space and Rocket Center
- Propulsion Specialist within space shuttle launch simulation

First Robotics Competition – *August 2014 to May 2015*

- Key member of mechanical design and fabrication team
- Won award for Highest Seeded Rookie Team

Hand Built Go Kart – *May 2019*

- Fabricated custom go kart in garage as personal project utilizing hand tools
- Used SolidWorks to design frame
- Flux Core welded entire steel frame