

# Taylor Kunke

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## EXPERIENCE

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### • NuScale Power

*Mechanical Engineer II/III*

Corvallis, Oregon

*July 2020 - Present*

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### • Space Exploration Technologies

*Test Automation Engineer I/II*

Hawthorne, California

*August 2017 - July 2020*

- Responsible for the design, integration, and validation of component testing hardware for flight-like acceptance, development, and qualification testing programs.
- Designed and constructed high flow, thermally conditioned pressurized helium test facility for state-of-the-art rocket stage vent valves, enabling cost savings of over \$500,000 annually.
- Worked with vendors to supply high quality COTS solutions to ground support equipment.
- Investigated Dragon 2 in-flight abort static fire anomaly with small team of skilled technicians, resulting in rapid diagnosis of system-related faults which guided efforts in system redesign.
- Analyzed heat transfer performance in both cooling and heating applications, utilizing pressurized and unpressurized heat exchangers with liquid nitrogen and thermal oil heat transfer fluids.
- Supported ground hardware teams with analysis and design of systems to meet strict flight requirements for testing while ensuring development programs could advance at the required pace.
- Designed and commissioned a 20 ksi pressure system to safely and efficiently test Raptor and Starship flight hardware with goal of Starship orbital flights in 2020.

### • Georgia Institute of Technology

*Research and Teaching Assistant*

Atlanta, Georgia

*August 2015 - July 2017*

- Designed an air-cooled condenser wind tunnel test facility to study the impacts of dynamically unstable oscillating reeds on air-side heat transfer performance.
- Developed test section and testing procedure to evaluate heat transfer enhancement and pressure drop penalty associated with novel reed design.
- Incorporated empirical data into a bespoke heat transfer analysis code to assess overall power plant efficiency improvement.

## EDUCATION

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### Georgia Institute of Technology

*Master of Science in Mechanical Engineering; GPA: 3.71*

Atlanta, Georgia

*August 2015 - July 2017*

### Gonzaga University

*Bachelor of Science in Mechanical Engineering; GPA: 3.93*

Spokane, Washington

*August 2011 - May 2015*

## CORE COMPETENCIES

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- **Mechanical Design:** NX, SolidWorks, DesignModeler, SpaceClaim
- **Mechanical Analysis:** ANSYS Workbench/Mechanical, AutoPIPE, EES
- **Programming:** NXOpen, git, APDL, Python, Matlab, MathCAD
- **Professional Skills:** Filler