

Kevin Lindbloom

Mechanical Engineer

Contact

- 1014 N. Claiborne Ct.
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Technical Skills

- MATLAB
- SOLIDWORKS
- Alibre Design
- Microsoft Office
- Fusion 360

Elective Coursework

- Aerodynamics
- Structural Analysis
- Advanced Machine Design

Awards and Certifications

- NAU Dean's list
2018-2021

References

- **Alan Valliere**
Lead Engineer
Car-Graph inc.

avalliere@
car-graph.com

Profile

Junior at Northern Arizona University majoring in Mechanical Engineering with hands-on experience in the field using professional programs and machinery to develop tools and parts on a team. Looking to apply this knowledge in a professional workspace and expand technical skills in the industry.

Experience

Mechanical Engineering Internship *May 2020 – July 2020*

Car-Graph inc. / Tempe, Arizona

- Developed a MATLAB and Excel program to calculate Interference stress at different diameters, temperatures, and rotational speeds for a ring seal designed for Blue Origin's liquid hydrogen fuel chamber.
- Created engineering drawings and models for new designs of both ring seals and tooling systems with CAD.
- Collaborated with lead engineers on ring seal design to achieve clients' requirements and expectations.
- Re-designed robot components to improve efficiency.
- Practiced developing cost-effective solutions to domestic problems by designing a vacuum system for an OmniTurn GT-75 machine.

Model Rocket Design for WSGC FNL Competition *Jan 2021 – May 2021*

Northern Arizona University / Flagstaff, Arizona

- Designed and developed an electronic avionics bay to measure and record critical flight information of a class 3 model rocket using Arduino.
- Utilized RockSim software to analyze weight distribution effects on rocket stability.
- Implemented an in-flight "anomaly" of which the avionics bay can detect and record as specified by competition rules.

SAE Baja Competition – Drivetrain Engineer *May 2021 – Present*

Northern Arizona University / Flagstaff, Arizona

- Worked with a team to design and manufacture a single-seat offroad vehicle to compete in the Society of Automotive Engineers 2022 Baja Competition.
- Utilized AGMA standard equations to design a double-reduction gearbox with minimal weight and optimal performance
- Utilized Finite Element Analysis to determine stresses and deformation on components with complex geometry
- Monitored team spending against projected estimates to ensure project cost remained under budget.

Education

Northern Arizona University / 2018–Current

Bachelor of Science in Mechanical Engineering

GPA: 3.87 cumulative

Expected Graduation May 2022