

JOEY SCASSA

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Education

- Pursuing a bachelor's in mechanical engineering at Kansas State University. (May 2028)
- Graduated from Vista Ridge High School. (May 24th, 2024, **Diploma**)
- Retaining a 4.0 GPA with 28 credit hours completed so far.

Experience

Gunsmithing Internship | Blackjack Gunsmithing (June 14 – August 10, 2024)

- Managed documentation of an estate consignment of 109 firearms totaling \$60,000.
- Developed a system to cross-reference inventory to improve efficiency and reduce errors; designed, planned, and initiated an effort to automate the system with an API.
- Sold firearms while adhering to legal protocols.
- Provided personalized service by understanding customer needs for custom firearms.
- Ensured transparent and effective communication between customers and the business.
- Managed storefront operations to ensure a quality experience for approximately 200 customers per week.

Skills

- Fluent in SolidWorks, Fusion 360, Inventor, Onshape, and Blender.
- Experience with CFD and MATLAB. (CSWA Certification ID: **C-H59WFL286X**)
- Exceptional spatial reasoning and problem-solving abilities.
- Excellent communication, teamwork, and documentation skills.
- Experience with 3D printing and CNC. (6061 aluminum, Plastics)
- Good understanding of physics to optimize before prototyping

Clubs/Organizations

Project Manager & Hardware Lead | Vista Ridge Robotics (Sep 2022 – May 2024)

- Managed a team that designed, programmed, manufactured and assembled a competitive robot.
- Applied knowledge of Physics and Calculus ensuring the first prototype of the robot functions.
- Taught CAD, CAM, CNC, and 3D printing to the new members.
- Won 2nd place innovate award for our robot design at simi regionals.
- Placed 3rd at state Competition this previous season.

Powercat Motorsports FSAE (Formula)

- Recently secured a position on the Powercat Motorsports suspension team.
- Redesigning engine mounts for 2013 car that we are rebuilding.

Projects

Cycloidal Gearbox

- Learned how to design and machine Cycloidal gearbox out of 6061 aluminum to demonstrate application of CAD and CAM to real-world prototypes.

Custom Speaker Mounts for Tesla P85

- Designed custom 3d printed speaker mounts to fit in the Tesla P85.

References

- Nico Giraldo, Previous employer (Blackjack Gunsmithing)
Phone: 512-422-0228 Email: blackjackguns@gmail.com
- Sean O'Connor, Robotics Coach
Phone: 254-493-3073

