

KELBY KARCHER

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SUMMARY

I am a goal-oriented problem solver interested in space exploration applications of aerospace engineering seeking a full-time, entry level position in the aerospace industry.

EDUCATION

University of Tennessee	Knoxville, TN	Graduation: December 2017
<i>Bachelor of Science in Aerospace Engineering</i>		
GPA: 3.19/4.00 Cumulative & 3.27/4.00 Field of Study		August 2012-December 2017

PROJECT WORK

Cryogenic Rocket Project

- Leader on a thrust stand project for a NASA-funded, cryogenic rocket engine.
- Designed and built a thrust stand capable of measuring thrust forces up to 500 pounds from the ground up.
- Modeled and analyzed entire thrust stand and performed finite element analysis to determine structural reliability.
- Assembled and installed cryogenic fuel plumbing system.
- Successfully test fired the cryogenic rocket engine.

Coal Powered Rocket Design Project

- Leader of a 10-person team in the design of a coal powered rocket, delegating tasks to all members of the team.
- Performed finite element analysis on containment matrices used to hold pulverized coal.

WORK EXPERIENCE

Personal Tutor	Knoxville, TN	August 2016- December 2017
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- Private in-home tutor, educating several Knoxville area middle and high school students in algebra and geometry.

Beaty Chevrolet	Knoxville, TN	May 2014- July 2014
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Sales Associate

- Sold new and used cars, generated an average of \$9,000 per month of revenue for the dealership.
- Lead and directed the customer on their search for the right vehicle with a 100% customer satisfaction rating
- Negotiated during vehicle deal, including trade-in value and new/used car price.

Fox Communications	McLeansboro, IL	July 2010 – August 2013
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Wireless Specialist

- Assessed customer needs while driving profitable products to surpass all performance objectives.
- Provided customer support by answering questions regarding products and services as well as technical support.

ENGINEERING SKILLS

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| · MATLAB | · Solidworks 3D Modeling | · Cryogenic Plumbing |
| · Microsoft Office Suite | · Finite Element Analysis | · Orbital Mechanics |