

# WILL BOEKEL

Prototype LiDAR  
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(a self-driving freight company)

# I AM QUANTUM

At Aurora I build, service, and help develop long range LiDAR (Light Detection and Ranging) units that are used on self driving semi trucks. I also help by designing in CAD and printing small parts for various tests and processes for our scanners.

## WHAT IS MY CONNECTION TO QUANTUM?

At Aurora we use lasers and LiDAR to be able to sense the world around us and create a 3D image. LiDAR uses quantized particles of light, or photons (the smallest unit of light), which is an application of quantum.

## HOW DID I GET INTO A QUANTUM-RELATED JOB?

I completed the Photonics and Laser Technology 2-year program through Gallatin College which prepared me to be hired as a technician in this field.

**THE THING I LIKE BEST ABOUT MY JOB** is the ability to work on cutting edge technology that will have a big impact in the world. The change from day to day working on various projects and priorities makes it fun and refreshing as well.



**OUTSIDE OF WORK**, my main hobby is project caving where I lead a mapping effort of the Bighorn/Horsethief Cave System. Over 100 volunteers have participated on the project. For this project we use custom built LiDAR units to supplement our standard documented cave survey methods to create a 3D model of the cave.

## WHAT ADVICE WOULD I GIVE HIGH SCHOOL ME?

Ask for help earlier and take the time to make sure you understand things.



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[montana.edu/smrc/quantum/](http://montana.edu/smrc/quantum/)



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