

Bradley Ian Kingsley

Cell phone: 520-461-6155
3251 S. Gillenwater Dr.
Flagstaff, AZ
Email: BradleyI.Kingsley@gmail.com

Objective

My objective is to find a career in mechanical design that is challenging and complements my skills and education goals of becoming a professional Mechanical Engineer.

Education

Northern Arizona University (NAU) - Senior in Mechanical Engineering with a 3.14 GPA.
Catalina Foothills High School (CFHS) - High School Diploma awarded in May 2017 with a 3.0 GPA.

Work Experience:

Navy Precision Optical Interferometer– Mechanical Engineering Intern (*May 2019-current*):

- Computational Physics Incorporated (January 2023-Current)
- Lowell Observatory (May 2019-December 2022)
- Integrating 1m optics into a current functioning array
- SolidWorks design, assembly, modification, and manufacturing drawings
- Hands on fabrication and repair
- Hands on assembly and diagnostics, including vacuum and non-vacuum work
- Construction including: Precision Survey, Fill Material, Compaction, Concrete, etc
- NAU Senior Capstone Project – Fast Delay Line Interface Design

Arizona Optical Systems – Mechanical Engineering Intern (*May – August 2018*):

- Assembly, design, drafting, review, and purchase ordering
- Independent work on projects with daily and weekly progress reports
- Hands on assembly and testing
- Documentation and presentations on progress

Various independent jobs (*2010 - current*):

- Various metal fabrication jobs including: cutting, machining, MIG and stick welding
- Small to large automotive repairs and performance upgrades
- Masonry work including: block laying, grouting, stucco, and piers
- Home maintenance, repair, and yard work

Relevant Skills, Hobbies and Activities

- Computer skills: SOLIDWORKS 2017-2023, Autodesk Inventor 2017, Ultimaker Cura, MATLAB, Arduino IDE, Microsoft Word, Microsoft Excel, Microsoft PowerPoint, Adobe Photoshop, Adobe Illustrator, Adobe Dream Weaver and Google Drive.
- Mechanical skills: design, drafting, 3d printing, assembly, machining (mill/lathe), fabrication, welding, automotive, and diagnostics.
- Fully restored a 1977 Chevrolet Scottsdale 4x4 short bed pickup truck. Including engine rebuild, gearing, bodywork, fabrication, suspension modifications, electrical and interior.

Publications:

1. J. Kingsley, P. Strittmatter, K. Gonzales, T. Connors, B. Kingsley, B. Jannuzi, Y. Yoshii, T. Minezaki. **A domeless, mobile 2-m telescope**, 15 December 2020 SPIE Astronomical Telescopes + Instrumentation.
2. Gerard van Belle, James Clark, J. Thomas Armstrong, Ellyn Baines, Ty Martinez, Sergio Restaino, Henrique Schmitt, Anders Jorgensen, David Mozurkewich, Teznie Pugh, Wyatt Clark, Nicholas Green, Khristian Jones, Bradley Kingsley, Peter Kurtz, and Adam Schilperoort. **The Navy Precision Optical Interferometer: two years of development towards large-aperture observations**, 13 December 2021 SPIE Astronomical Telescopes + Instrumentation.

References:

*Current References upon request.

*References from Arizona Optical Systems or others provided upon request.

*Full Portfolio upon request.