

Carl Kelly

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Experience

Insight Photonic Solutions, Lafayette, Colorado

Laser Calibration Analyst June 2017 – Present

- Apply currents to swept source a kinetic semiconductor lasers using in-house software for 1060 nm, 1310 nm and 1550 nm wavelengths;
- Conduct quality assurance testing to verify that each system met specification requirements for customers;
- Balance speed with quality to meet explicit shipping deadlines;
- Help initiate standardized process for laser calibration of swept source lasers to meet frequency modulated continuous wave LiDAR requirements;
- Conduct fiber optics research, maintaining fiber to maximize the polarization extinction ratio of the output signal;
- Solution-oriented trouble-shooter and team player with strong working relationships with colleagues.

Regis University Physics Department, Denver, Colorado

Lab Research, Teacher's Assistant, Tutor - August 2016 - May 2017

- Worked with a team at the Fermi Lab to collaborate on national particle research;
- Skilled with circuit electronics, scintillating fiber maintenance, and milling machines;
- Assisted professor during large lecture classes and laboratories;
- Collaborated with classmates on physics concepts and problems.
- Monitored the progress of my students and assisted them as needed.

Bit-O-Wyo Guest Ranch, Cheyenne, Wyoming

Wrangler May 2015 - August 2015

- Led horse trail rides for guests, maintained horses served as a ranch hand;
- Developed strong customer service skills through leading and caring for guests on trail rides, during meals and at group activities.

Skills & Education

Lab: Expert in handling optical fiber, oscilloscopes, multimeters, fusion fiber splicing machine, and free space optical alignment.

Computer Related: Proficient in *Microsoft Word, Excel, PowerPoint* and *LoggerPro*. Familiar with software for *Matlab, Inventor, SPICE* and programming in *Python*.

Bachelor of Science, Traditional Physics, Regis University, Denver Colorado, May 2017
International Baccalaureate Diploma, International School of Belgrade, Belgrade, Serbia, June 2013