

# John 'JD' David Ritchey

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## Objective:

A highly motivated, result driven, creative, detail oriented, hard working, dedicated professional seeks employment in the Central/Northern Colorado Area.

## Summary of Qualifications

- Proficient in a variety of software platforms including Minitab, Microsoft Excel, Powerpoint, Word, Matlab, 3D Cad (Pro-Engineer, Sketchup), Photoshop, Gimp, Labview, Arduino IDE.
- Six years experience in an Engineering Laboratory including extensive time in Machine Shop.
- Electronics enthusiast, prototyper, and programmer.

## Education

Bachelor of Science in Mechanical Engineering from Colorado State University (2.851 GPA)

## Work Experience

### Hydraulic Engineering Laboratory of C.S.U.

Project Manager and Research Assistant (6/2006 - 8/2011, 1/2014-Present)

- 3D CAD specialist and Designer for USACE Levee Overtopping Simulator
- Automated Data collection cart designer, Labview programmer
- Project Manager for full scale erosion projects
- Construction, testing, and deconstruction of hydraulic modeling experiments with extensive experience in the machine shop and on the CNC mill

### Advanced Material Laboratory of C.S.U.

Laboratory Technician (12/2007 - 5/2008)

- Research of novel material synthesis for advanced applications, specializing in steel ball milling and microwave synthesis
- Material characterization

### Breckenridge Sports

Assistant Manager (9/2011 - 9/2013)

- High level customer service representative
- Staff management, retail and rental operations, store operations
- Extensive use of POS and reservation systems

## Relevant Skills

- 3D CAD (Pro Engineer(CREO), Google Sketchup),
- Programming (Labview, Matlab,C++/Arduino IDE, Sigma)
- Extensive construction and machine shop experience (Hand/Power Tools, Mills, Lathes, CNC Mill)
- CAM (MasterCam)
- Minitab, Microsoft Excel, Word, and PowerPoint. Some Photoshop and Gimp

## Educational Achievements

- Created a sign language emulating robotic hand with Mechatronics design group. The project was published in Design News August 2009.
- Collaboration recognition for two publications of novel material synthesis in the European Journal of Ceramics with Professor Manivannan.

## Personal Projects and Interests

- Photography - I build custom automated motion control rigs for time lapse photography. I also enjoy nature and night time photography (jdskeer1.tumblr.com) (vimeo.com/user8764758)
- Light Box's - Design and construct my own arduino based LED controllers for night time photography (<http://www.instructables.com/id/Light-Painters-Palette-aka-Light-Box/>)
- Ski Building - Developed a custom ski manufacturing process. Built custom industrial grade ski press. I've been skiing on my own skis for the past 2 seasons!