

Mark Husted, P.E.

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Education

Colorado School of Mines, Golden, CO

December 2010

M.S. in Energy Systems and Power Electronics, GPA: 3.91, Optimization and Relay Setting Experience

B.S. in Electrical Engineering with minor in Economics, GPA: 3.85, Tau Beta Pi

Experience

Ulteig Engineering Inc., Englewood, CO

January 2011 to present

Design Engineer

- Design of substations by creating major equipment specifications, grounding studies, and lightning studies
- Work with one-line and three-line diagrams
- Exposure to relay setting and substation total project cost estimation

Stanley Engineering, Centennial, CO

May 2010 to August 2010

Intern

- Data gathering of grounding resistivity measurements using the 4-pin Wiener method
- Substation ground grid analysis and modeling ground grid dispersement of fault and lightning energy

Tri-State Generation & Transmission, Westminster, CO

May 2009 to August 2009

Intern

- Assembly of power transformers list and their nameplate ratings for Tri-State's transformers in the western power grid
- Use of billing software to automate metered electricity readings

Publications

Scheduling Softball Series in the Rocky Mountain Athletic Conference

Authors: Marjorie Cone Saur, Kaleigh Starr, Mark Husted, Alexandra Newman

- Interfaces, Vol. 42, No. 3, May-June 2012, pp. 296-309

Skills

- Development of an arc flash hazard analysis study of the Hillcrest Hydroelectric plant for Denver Water to implement flash boundary labels (Senior Project)
- Knowledge of and working practice with NEC and NESC standards
- Modeling of settings for line protection schemes using Schweitzer relays
- Optimization experience from four graduate integer and linear programming courses
- Ongoing scheduling of RMAC softball and soccer (since 2011) using AMPL algebraic modeling language and CPLEX solver

Honors and Awards

- Licensed Professional Engineer in Colorado and California
- Eagle Scout
- Six-time NCAA Division II All-American, National Champion Distance Medley Relay and 800m (2009, 2010)
- Academic All-American Athlete of the Year presented by ESPN (2010)
- Professional runner for Brooks