

# **Andrew Cross** *www.agcross.com • (316)-200-1161 • andrewgcross@gmail.com*

Current Address: 6810 Antioch, Apt 260; Merriam KS 66204

## **PROFILE**

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Adaptable, creative, and personable with uniquely diverse skills including expertise with multiple aspects of computing, familiarity with electrical systems, and a penchant for independent learning

## **EDUCATION/CERTIFICATION**

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The University of Kansas / Lawrence, Kansas  
BS, Mechanical Engineering

*Graduation: May 2009*

**EIT/ FE certified by Kansas State Board of Technical Professions**

*April 2008*

**Certified SolidWorks Professional (ID: C-FRM75VCHPR)**

*March 2011*

## **WORK EXPERIENCE**

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*Vertical Turbine Engineer - Pentair Engineered Flow; Kansas City, Kansas* *July 2010-Present*

- Responsible for R&D intended to be the basis for a section of the ANSI/HI Pump Standards
- Author of multiple internal design standards, including comprehensively parametric SolidWorks models and a 40 page document that dictates the standard method of design for discharge heads
- Created a collection of Access/Excel/VBA programs that stores empirical test data, normalizes said data, and generates hydraulic curves for the ~100 standard turbines in the product line
- Member of the Material Review Board, make 1-2 drawings daily to repair non-conforming parts

*Material Control Manager - Pentair Engineered Flow; Kansas City, Kansas* *March 2010-July 2010*

- Developed strategies to monitor and improve the state of inventory accuracy by over 5%
- Assist in managing a team of 14 in the day-to-day operations of the warehouse

*Internship - NuWa Industries, Inc.; Chanute, Kansas*

*May 2004-August 2008*

- Interpreted and converted technical CAD drawings for non-engineers
- Collaboratively maintained a SQL database for a website collecting over 4,000 hits per day

## **NOTABLE ACTIVITIES**

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*Capstone Senior Design Team Captain*

*September 2008-May 2009*

- Led team members in the efficient design and construction of a “mobile power station” consisting of a battery bank continuously charged by multiple photovoltaic cells and a wind turbine all monitored by a custom built-from-scratch DAQ system

*Active ASME member*

*March 2007-May 2009*

*Summerfield Scholar*

*August 2005-May 2009*

## **COMPUTER SKILLS**

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*One of my strongest skills as an engineer is my ability to learn new computer systems very quickly. This is a list of relevant languages/programs I am either very well versed in, or at least usefully familiar.*

### **Programming**

MATLAB, LabVIEW, PBASIC, Excel/Access (including VBA), C++, PHP/SQL, JD Edwards

### **Design**

SolidWorks, AutoCAD, KiCAD, Blender, Adobe Creative Suite