

# William H. Purcell IV

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## EDUCATION

**Southern Illinois University**, Edwardsville, IL May 2008 - Present  
*Master of Science, Mechanical Engineering*  
Expected December 2010

- Proposed thesis topic: *Rapid embedded control implementation with Python and RTLinux*

**Southern Illinois University**, Edwardsville, IL August 2004 - May 2008  
*Bachelor of Science, Mechanical Engineering*

- *Pi Tau Sigma* - National Mechanical Engineering Honors Society

**Langa Air Academy**, Bethalto, IL November 2005 - June 2007  
*Commercial Pilot License*

- Instrument Rated

## EXPERIENCE

**Marcal Rope & Rigging Inc.**, Alton, IL August 2009 - Present  
*Mechanical Engineer*

- Design of Below the Hook Lifting Devices
- 3D Modeling and 2D Drafting of Below the Hook Lifting Devices
- Implemented a RFID tracking solution for manufactured products.
- Help with all IT needs including networking, basic application setup, and surveillance system maintenance.

**McDonough-Whitlow, P.C.**, Hillsboro, IL May 2008 - August 2009  
*Mechanical Engineer*

- Commercial construction design. (MEP)
- Commercial HVAC design.
- Commercial Fire Protection Design

**Emerson Motor Company**, St. Louis, MO May 2006 - August 2007  
*Application Engineer Co-op*

- Oracle Bill of Material Experience
- Development of Testing Procedures
- Induction Motor Design
- Received the Emerson Hero award for stress analysis to determine acceptable parts.

**United Parcel Service**, East Alton, IL March 2004 - May 2006  
*Supervisor*

- Supervised 12-15 package handlers and clerks.
- Attended daily conference call to report production numbers, discuss logistics, and occasionally conduct the call.
- Audited, cleaned, and disposed of hazardous materials.

## SKILLS

*Operating Systems:* Linux, Windows

*Languages:* Python, PHP, C

*Software:* VariCAD, Excel

*Documentation:* Microsoft and Open Office, LaTeX, reStructuredText, HTML, CSS,

*Hardware:* PC, PSoC, BeagleBoard

*Manufacturing:* Mill, Lathe, Welding