

DANIEL M OLSEN

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EDUCATION

Southern Illinois University Carbondale

B.S. in Computer Engineering
Minor in Computer Science

Carbondale, IL

Dec. 2014-anticipated

- G.P.A. 3.556/4.0

EXPERIENCE

The Boeing Company

Information Technology Intern

St. Louis, MO

May 2014–Present

- Aid in the development and support of enterprise software engineering tools, including ClearQuest, ClearCase, and Team Foundation Server

Rockwell Collins

Software Engineering Intern

Cedar Rapids, IA

June 2013–Present

- Collaborated with a team of international engineers on the Radio Tuning System Application (RTSA) for the Pro Line Fusion flight deck
- Became proficient at requirements based software development and verification in a real-time environment
- Gained experience with the ARINC A661-2 Cockpit Display System and DO-178C certification
- Assisted in the structural coverage analysis of the application using VectorCAST

Center for Embedded Systems

Research Assistant

Carbondale, IL

Dec. 2011–Present

- Funded by a NSF Undergraduate Research Grant in connection to a project with Rockwell Collins
- Implemented software path tracing and visualization using binary decision diagrams (BDDs) and developed a plug-in for the Eclipse IDE to utilize the path tracer
- Currently researching implementing cluster-computing techniques (Open-MPI) to simulate multi-core architectures in order to perform real-time data acquisition and processing, and timing analysis

Cornell Cup U.S.A

Team Manager/Software Engineer

Carbondale, IL

Aug. 2012–May 2013

- Led a team of four other electrical and computer engineering students in a national level embedded system competition
- Designed and built an autonomous underwater vehicle (AUV) that is capable of being self-sustaining through the use of solar power

Senior Design

Software Engineer

Carbondale, IL

Jan. 2014–Present

- Collaborated with a multidiscipline team of engineers to design and build a Digital Light Processing (DLP) 3D printer

Saluki Makerspace

System Administrator

Carbondale, IL

Jan. 2014–Present

- A founding member of the Saluki Makerspace within the College of Engineering at SIU

-Continued from page 1-

- Currently designing and building the Makerspace's website

College of Engineering

Student Ambassador

Carbondale, IL

Aug. 2013- Present

- Assisted in recruitment efforts for the SIU College of Engineering

Boy Scouts of America

Eagle Scout

Evansville, IN

May 2011

SKILLS AND KNOWLEDGE

- **Applications:**
 - **General:** AutoCAD, MATLAB/Simulink, Microsoft Office
 - **Software Development:** Eclipse, Visual Studio
 - **Software Engineering:** ClearCase/ClearQuest, Rational DOORS, Git, Subversion, VectorCAST
 - **Engineering:** Cadence, Multi-Sim, XINLIX ISE Design Studio
 - **Networking:** OPNET IT Guru, Wireshark
- **Programming Languages:** C, C++, Java, Python, Verilog, HTML5, CSS
- **Operating Systems:** Windows and Linux