DANIEL M OLSEN

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**EDUCATION**

**Southern Illinois University Carbondale**  Carbondale, IL

B.S. in Computer EngineeringDec. 2014-anticipated

Minor in Computer Science

* G.P.A. 3.556/4.0

**EXPERIENCE**

**The Boeing Company** St. Louis, MO

*Information Technology Intern* May 2014–Present

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

**Rockwell Collins** Cedar Rapids, IA

*Software Engineering Intern* 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** Carbondale, IL

*Research Assistant* 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** Carbondale, IL

*Team Manager/Software Engineer* 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** Carbondale, IL

*Software Engineer* Jan. 2014–Present

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

**Saluki Makerspace** Carbondale, IL

*System Administrator* Jan. 2014–Present

* A founding member of the Saluki Makerspace within the College of Engineering at SIU
* Currently designing and building the Makerspace’s website

**College of Engineering** Carbondale, IL

*Student Ambassador* Aug. 2013- Present

* Assisted in recruitment efforts for the SIU College of Engineering

**Boy Scouts of America** Evansville, IN

*Eagle Scout* 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