Chance Baker

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(217) 621-1956

OBJECTIVE: To obtain an electrical engineering internship being part in the day to day activities of real world engineering application to gain experience and knowledge

EDUCATION:

Southern Illinois University, Carbondale, Illinois (SIUC)
Bachelor of Science in Electrical Engineering, December 2014
Minor: Mathematics
Pursing Honor Degree as a member of University Honors Program
GPA: 3.8/4.0

EXPERIENCE:

Resident Assistant   January 2012-Present
Southern Illinois University Carbondale, IL
- Responsible for creating and leading social, educational, and personal development programs
- Accountable for educating and enforcing Housing Policy
- Mentor and create solutions for conflicts between residents

Research for Undergraduate Student   Summer 2013
Southern Illinois University Carbondale, IL
- Worked in a group focus on nano-embedded thermoelectric cooling
- Gave presentation to peers and faculty
- Worked as an individual in Mapping Thermal Distribution in ICs

Production Member (Seasonal)   May 2010-Winter 2013
Steak'n Shake**,** Effingham, IL
- Provided great quality food and service with a smile
- Trained several co-workers and managers in training in various stations

RECOGNITION:

Tau Beta Pi Engineering Honor Society, SIUC   Spring 2013-Present
College of Engineering Dean's List, SIUC   Fall 2011-Present

ACTIVITIES:

President of the 3-D Design and Replication Club   Spring 2013-Spring 2014
- Assist in fundraising to financially support build materials
- Built, calibrated, and maintain a 3D Printer
- Helped form the club to become a registered student organization

Volunteer Tutor for Athletic Department   Fall 2012, Spring 2013

SKILLS:

- C++/ C#
- Verilog/VHDL
- MatLab
- FEMM
- Microsoft Office
- HotSpot
- 3D Printing
- Auto CAD
- CNC Machine

RELEVANT CLASSES:

- Electric Power Distribution
- Electromechanical Energy Conversion
- Calculus I, II, and III
- Ordinary / Partial Differential Equations
- Signals & Systems
- Systems & Controls
- Intro to Digital Computation
- Electromagnetic Fields

JEFFREY P BURDICK

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60930

EDUCATIONAL EXPERIENCE

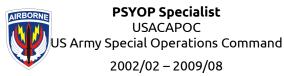|	
Mechanical EngineeringStudent Southern Illinois University, Carbondale Carbondale, IL 2012/08 – present	• Making extensive use of the Python programming language and Xcos block algebra modeling in labs and assignments to be able to work beyond spreadsheets and calculators • Finishing one of the only undergraduate mechanical engineering programs in the nation which includes an extensive controls curriculum
Project Manager Project PAM Carbondale, IL 2014/01 – present	• Developing mechanical systems for the worlds first completely open source photoresin additive manufacturing (PAM) system • Focusing on a fully documented solution, including proper geometric dimensioning and tolerancing (GD&T) and adhering to ISO standards for all models and drawings • Leading a team of 5 engineers
Chief Drivetrain Engineer Saluki Racing Carbondale, IL 2012/08 – present	• Developing and testing in-house metrics for engine performance • Focusing efforts on quantification and qualification of development • Implemented data acquisition system for drivetrain and chassis datalogging

MILITARY EXPERIENCE & EDUCATION

PSYOP Specialist USACAPOC US Army Special Operations Command 2002/02 – 2009/08	• Provided tactical Psychological Operations (PSYOP) support for the Iraqi Army, US Special Operations Forces, and 3d Armored Cavalry Regiment during the Battle of Tal'Afar (Operation Restore Rights) • Stood-up PSYOP campaign in Nasiriyah, Iraq from scratch • Built counter-smuggling campaign with Weapons Intelligence Team which provided immediate counter-action for enemy attacks throughout theater • De-constructed and reported on enemy propaganda and tactics, providing intelligence actionable at the theater command level
• Deployed in support of Operation Iraqi Freedom from 2005-2006 and 2008-2009 • Graduated PSYOP and Intelligince Analyst school with honors, and 42L school with 100% GPA, making the Commandant's List • Honorably discharged with 2 Army Commendation Medals, 2 Meritorious Unit Citations, a Valorous Unit Award, and a Combat Action Badge	

CIVILIAN WORK EXPERIENCE

Process Engineering Intern ThyssenKrupp Presta Danville, IL 2012/06 – 2012/08	• Focused on hands-on learning of manufacturing processes and practices • Experienced high volume manufacturing environment, learning practicality and compromise in implementation • Learned lean manufacturing principles
⬥ **R I O N** Engineered Motorwerks **Sole Proprietor** Ashkum, IL 2009/10 – 2012/08	• Advised and executed performance upgrades using in-house measured, modeled, and calculated performance metrics • Utilized open R&D practices for scrutiny, discussion, and feedback from the sport-compact community, setting a trend being emulated by others in the community • Develop product with outside manufacturers, using in-house research and testing to optimize component specifications for maximum performance, including the development of valves, pistons, and connecting rods for the Toyota 4A-GE 20v engine
Performance Intern Speed-Source Inc. Seymour, IL 2011/01 – 2012/08	• Developed, tested, and manufactured product in-house • Learned G-code, manual and CNC machining methods • Focused on principles of design for manufacturability
Automotive Repair Technician Checkered Flag Imports Gary, IN 2007/06 – 2007/10	• Diagnosed grey-market, rare, or vintage vehicles for which little or no English documentation exists • maintained unconventional automotive systems such as BOSCH mechanical fuel injection and air-cooled engines • Provided unique environment for developing problem-solving practices based on quantification and qualification of problems and solutions

DANIEL M OLSEN

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Newburgh, IN 47630
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EDUCATION

Southern Illinois University Carbondale   Carbondale, IL
B.S. in Computer Engineering   Dec. 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

Casey Spencer
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Permanent Address:	**College Address:**
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Whittington, IL 62897	Carbondale, IL 62901
(618) 927-9334	(618) 927-9334

Education
Southern Illinois University, Carbondale, IL 62901
Knox College, Galesburg, IL, 61401
GPA: 2.7/4.0

Relevant Coursework
- Electromech Energy Conversion
- Power Distribution
- Electromagnetic Fields
- Systems and Controls
- Electronic Devices
- C++

Work Experience
Head of Maintenance, Alleman Properties.   June 2012-present
- Maintenance duties for 86 rental properties and apartments
- Ensure all residences meet state and local building codes
- Responsible for purchase and installation of all major appliances and materials
- Handle tenant complaints and requests

Ewing/Ina Water Commissioner's Office   May - December 2011
- Upgraded town from mechanical to electronic-read water meters
- Installed and programmed electronic-read water meters

Non-Work Experience
House Manager, Beta Theta Pi Fraternity, Xi Chapter   March 2010 - March 2011
- Responsible for ordering materials for the fraternity house
- Organized all maintenance work

Represented local chapter at the 2010 John and Nellie Wooden Institute
Represented local chapter at the 2011 Regional Keystone Leadership Conference

Skills
- AutoCAD 2013
- Microsoft Visual C++
- Wolfram Mathematica
- MATLAB
- Synopsys

Activities
- President, Rotaract, Knox College, November 2010
- Varsity Wrestling, Knox College, 2009-2011
- Physics Club, Knox College, 2009-2011

Nicholas Lowman

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lowmann@siu.edu

Education

Southern Illinois University
Carbondale, Illinois
Studies: Electrical and Computer Engineering
Member: SIUC Gymnastics Club (President), Secular Student Alliance
GPA: 3.05/4.0
Graduation: May 2015

Relevant Experience

Programming: Matlab, C, C++, Java, HTML, Python, VerilogHDL
Mathematics: Calculus I-III, Differential Equations
Hardware: FPGA/ASIC design, Xilinx ISE

Employment History

Berkots Super Foods   Apr. 2009 -
New Lenox, Illinois   Aug. 2011

Cashier/Stocker. 2009-2011 Berkots Super Foods, New Lenox, IL

> Stocked the shelves and retrieved shopping carts from the parking lot. Assisted customers
>
> with finding products. Supervised and managed the sales of the plants in the greenhouse
>
> during the summer months

SIUC Learning Support Services   Aug.-Dec. 2012
Carbondale, Illinois

Math Tutor. Assist students by tutoring them in their math courses. Learned to deal with difficult

> students in an appropriate manner and get them on the right track. Helped students organize
>
> course material to be better prepared for the tests. Provided supplementary course material to
>
> strengthen students competency.