

JEFFREY P BURDICK

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502 E 2400 North
Danforth, IL
60930

EDUCATIONAL EXPERIENCE

Mechanical Engineering Student
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 photorezin 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

- Deployed in support of Operation Iraqi Freedom from 2005-2006 and 2008-2009
- Graduated PSYOP and Intelligence 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
- 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

CIVILIAN WORK EXPERIENCE

<p>Process Engineering Intern ThyssenKrupp Presta Danville, IL 2012/06 – 2012/08</p>	<ul style="list-style-type: none">• 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
<p> Sole Proprietor Ashkum, IL 2009/10 – 2012/08</p>	<ul style="list-style-type: none">• 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
<p>Performance Intern Speed-Source Inc. Seymour, IL 2011/01 – 2012/08</p>	<ul style="list-style-type: none">• Developed, tested, and manufactured product in-house• Learned G-code, manual and CNC machining methods• Focused on principles of design for manufacturability
<p>Automotive Repair Technician Checkered Flag Imports Gary, IN 2007/06 – 2007/10</p>	<ul style="list-style-type: none">• 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