JEFFREY P BURDICK

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502 E 2400 North Danforth, IL 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

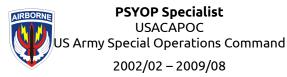
Chief Drivetrain Engineer

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



- 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

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



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 inhouse
- 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 aircooled engines
- Provided unique environment for developing problem-solving practices based on quantification and qualification of problems and solutions