

Tyler Skirtich

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OBJECTIVE

Seeking a student employment to support myself while I complete my Masters of Science in Mechanical Engineering at the University of Cincinnati.

EDUCATION

Ohio State University, Columbus OH
B.S. Mechanical Engineering, June 2008

Overall GPA: 3.04

RELEVANT COURSEWORK

- Product Design Fundamentals
- Optimization of Design
- Kinematics and Dynamics of Machinery
- Design of Machine Elements
- System Dynamics and Electro-mechanics
- Mathematical Logic and Boolean Algebra
- Principles of Automatic Control

EMPLOYMENT HISTORY

Title: Design Engineer

Greenville Technology Incorporated, Greenville, Ohio Employed From: (6/21/08-8/20/2010)

- Generated 3D models and technical drawings of instrument panel components for the Acura ZDX.
- Supervised the design of 2012 Honda Pilot front grille from concept to mass production.
 - o Performed preliminary feasibility on Honda styling data.
 - o Negotiated key design points with Honda engineer.
 - o Managed two engineers in the creation of 3D model and technical drawing.
 - o Negotiated tooling specifications with chrome plating supplier.
- Oversaw a program to improve workplace efficiency, reduce over time, and decrease design lead time.
- Created a CATIA V5 training program for new hires.

Title: Engineering Department Co-op

Colgate-Palmolive, Cambridge, Ohio Employed From: (6/19/06-12/20/06) and (6/14/07-9/10/07)

- Worked as Project Engineer in the production of Palmolive brand liquids.
- Managed projects with budgets up to \$100,000, keeping them on schedule and under budget.
- Projects included data collection for packaging line efficiency study, designing material blend back system, designing waste bottle regrind system.

Title: Engineering Department Intern

White Castle Systems, Columbus, Ohio Employed From: (1/3/06-3/10/06)

- Worked under Engineering Assistant Supervisor and Architectural Supervisor
- Responsibilities included analyzing new equipment test data, using building plans to assemble Bills of Materials, organizing completing AutoCAD drawing library.
- Was solely responsible for material requisition during the 2006 White Castle Re-imaging.

SKILLS

- CATIA V5, Autodesk Inventor , AutoCAD, Minitab
- Machining experience using lathe, drill press, and mill.
- MATLAB, Visual Basic, MS Office Utilities

PROJECT EXPERIENCE

Senior Design Project: A joint venture with OSU and John Deere to investigate parasitic power losses

- Worked with 3 team members on a 20 week \$1000 budget project to design and build a test rig for roller bearings from the main drive shaft of 8020 and 8030 series John Deere tractors.
- Required close work with John Deere representative to ensure that the test stand met their specifications.
- Personally coordinated the Design of Experiment portion of the project which included choosing test variables, variable levels, test run order, and preliminary analysis of data.
- Project allowed John Deere to decide to invest major capital funds to fully research topic.

OSU FIRST Robotics: An annual international competition where organizations mentor high school students in the design and construction of 120 lb remote controlled robot.

- **2006:** Component Design Team Lead: Designed and constructed mechanism to shoot 7 in foam balls.
- Used numerous prototypes to select motor speed, wheel size, and frame shape.
- **2007:** Team Co-Lead: Coordinated Component Design Teams in construction of entire robot.
- Oversaw design of a single jointed triple telescoping arm capable of lifting pool inner tubes 10 feet.
- **2008:** Team Lead: Organized first ever pre-season build session to teach new mentors basics of robot design.
- Choose to use innovative Mecanum Drive to improve maneuverability which helped the robot earn a place at the National competition.