

Matthew Eli Mathes

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Objective:

To obtain employment in the Materials Science industry in order to gain a greater understanding of and experience in the production and development of Engineering Materials.

Education:

Currently a senior in Purdue University's School of Materials Science and Engineering, located in West Lafayette, IN. Also working towards a minor in Electrical Engineering

Relevant Course Work:

Materials Processing, Advanced Materials Characterization, Mechanical Behavior of Materials, Heat and Mass Transport, Linear Circuit Analysis, Materials Characterization, Electrical and Magnetic Properties of Materials, Electro-Magnetic Physics, Physical Chemistry, Mechanics of Materials, Intro to C Programming,

Relevant Skills:

Metallurgical Sample preparation, Mechanical testing of steel sheet, basic C programming, basic Visual Basic programming, Microsoft Office, Basic Statistical Analysis

Work Experience:

Co-op: AK Steel Corp. Rockport Works, Rockport IN May 2002 – August 2002, January 2003 – May 2003, August 2003 – December 2003.

My duties were to aid the quality control group in the mechanical testing of steel sheet as well as processing production data in order to improve product quality. While at AK, I gained experience with the production of Cold Rolled, Hot-Dipped Galvanized, and Stainless Steel Sheet.

Internship: Harrison County Engineer's Office, Corydon IN, May 2004 – August 2004
Gathered and processed traffic data, performed hydraulic calculations, and conducted preliminary surveys for design use by the County Engineer.

Research: Purdue University May 2005 – August 2005. I did research for Professor Rodney Trice to develop a method for testing the fracture toughness of polycrystalline diamond compacts.

Activities:

President of Purdue RoboCup: January 2005 to Present

Mechanical/Structural Team Leader: August 2004 – Present

Purdue RoboCup is a group of students belonging to the worldwide RoboCup organization. The group is dedicated to the development and construction of a team autonomous soccer playing robots for world wide soccer competition.