

John Doe

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OBJECTIVE

To obtain a summer internship with Axalta Coating Systems.

EDUCATION

Michigan Technological University

BS Chemistry - Polymer Focus

GPA: 2.55/4.00 Departmental GPA: 2.65/4.00

Houghton, MI

Expected DEC 2017

INTERNSHIP EXPERIENCE

BASF Corp.

Polymer Chemist Intern

Wyandotte, MI

Summer 2014

Project Title: Polyurethane Application Development

Objective: Develop a polyurethane plastic coating for wood and metal

- Developed carbodiimide-based crosslinker for coating
- Performed isocyanate and carbodiimide colorimetric titration
- Mixed coating formulations and produced drawdown samples on stainless steel
- Followed ASTM and DIN methods for application testing
- Helped improve safety and efficiency of lab by instituting 5S principles
 - Sort, Straighten, Scrub/Shine, Standardize, Sustain

ENGINEERING PROJECT EXPERIENCE

Michigan Technological University

Project Title: Grignard Synthesis (Organic Chemistry)

Spring 2013

Objective: Design and create an experiment to produce a Grignard reagent to use in obtaining a wanted organic compound using a limited amount of supplied chemicals

- Worked on a team of 4
- Researched possible reactions of given chemicals to yield wanted compound
- Prepared Grignard reagent using supplied chemicals and reflux apparatus
- Reacted Grignard reagent and other supplied chemicals to create wanted organic compound
- Purified compound using column chromatography and rotary evaporation
- Insured proper compound using TLC plates, IR and NMR spectra readings
- Wrote concluding report detailing planning, researching, procedure, safety, and outcome

WORK EXPERIENCE

- **Polymer Chemist Intern**, BASF Corp. Wyandotte, MI June 2013 – August 2013
- **Laborer**, PYP Contracting, May – August 2011, 2012

LABORATORY/SAFETY SKILLS

- Gas Chromatography
- Column Chromatography
- Titration
- IR Spectra
- Reflux
- 5S Trained
- Application Testing for Coatings
- Fractional Distillation
- Anhydrous Reactions

TRAINING CERTIFICATES

- Hazard Communications
- Grounding & Bonding
- RCRA Hazardous Waste
- Personal Protective Equipment (PPE)
- Lockout/Tagout

COMPUTER/TECHNICAL SKILLS

- MS Office
- UGNX
- ChemDraw
- MATLAB
- HyperChem
- Mathematica

LEADERSHIP

Michigan Tech Mind Trekkers (STEM Road Show)

- Traveling extensively throughout the country with large teams of students to present and conduct interactive science and engineering to K-12 students to promote STEM education