Richard Dylan Hayenga

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Expected: May 2021

GPA: 3.62 / 4.0

EDUCATION

Winona State University - Winona, MN

Bachelor of Science in Composite Materials Engineering Minors: Polymer Chemistry and Mathematics

TECHNICAL SKILLS

Software: Microsoft Office, Excel, SolidWorks, CAD, MoldFlow, Delta, TA Analysis, SweetHome, Mathematica Materials Testing: ASTM and ISO Standards, Tensile, Flexural, Compression, Shear, Impact, Fiber Burn-Off Characterization: Microscopy, SEM, TGA, DSC, TMA, DMA, GCMS, FTIR, ¹H and ¹³C NMR Spectroscopy Manufacturing: LEAN, 5S, Filament Winding, Pultrusion, Extrusion, Injection Molding, Continuous Improvement

INTERNSHIP / RESEARCH EXPERIENCE

Materials Engineering Intern – Avient / PolyOne Corporation

- Designed a 3D sunglasses model on SolidWorks from sketch to assembly, and conducted FEA analyses \triangleright
- \triangleright Collaborated with R&D to determine control limits for materials using statistical analysis and additive properties
- \geq Worked in pellet production and collaborated with engineering team on implementing process improvements
- \triangleright Operated molding machines to create working parts, determine product failures, and improve current process
- Conducted proper mechanical testing of the processed materials according to ASTM and ISO standards \triangleright
- \geq Collaborated with interns across other areas of business on projects as a part of the internship program

Polymer Chemistry Research – Winona State University

- \geq Lead independent project: Synthesis of 3-Vinylthiophene as a Precursor in Solar-Cell Applications
- \geq Performed microwave synthesis, and characterized samples using FTIR, ¹H NMR, and GCMS
- \geq Proposed new synthetic methods based on experimental results for improvements in polymer processing

Engineering Intern – Miken Sports / Rawlings

- Implemented problem-solving and critical thinking skills to help improve upon manufacturing processes >
- \triangleright Executed projects efficiently by working with computer software such as SolidWorks, Excel, and SweetHome
- \geq Utilized hands-on skills to build various manufacturing applications such as carts, mounts, and shelves
- \geq Practiced lean manufacturing and utilized 5S knowledge to further improve on processes and safety

RELATED EXPERIENCE

Teaching / Lab Assistant – Winona State University

- \geq Worked in a laboratory setting to help the students properly conduct their scientific experiments
- \geq Responsible for mastering class material; grading all assignments and reports within the given deadline
- \geq Tutored students during personal office hours and assisted the professor with any other given duties

Mentor – Winona State University, College of Science and Engineering

Served as a mentor to four freshman engineering students by acting as a role-model and student contact

Engineering Student-Orientation Leader – Winona State University

- Taught incoming students how to adjust to college life through experiences and hardships they might face
- \geq Individually led a classroom, trained first-year leaders, and helped conduct interviews for hiring process

Catering Assistant – Najwa's Catering, North Mankato

Assisted with catering needs such as serving food, cleaning tables, and washing dishes during events.

AWARDS and ACHIEVEMENTS

- Three-time recipient of the Industry for the Advancement of WSU's CME Scholarship
- \succ Recipient of WSU's Vernon "Vern" Kallenborn Scholarship
- \triangleright Scored in the 98th percentile on the ACS National Organic Chemistry 2 Exam
- \geq Dean's List participation (7 semesters)

Notable Courses: Composites Manufacturing, Advanced Microscopic Techniques, Polymer Processing, Organic Chemistry 1 and 2. Polymer Science. Composite Materials. Materials Synthesis & Characterization. Polymer Chemistry, Mechanics of Composites, Design Project, Thermodynamics, Fluid Mechanics, and Electrical Circuits.

May 2019 - August 2019

September 2019 – Current

August 2017 – March 2020

June 2014 – December 2018

August 2017 – Current

August 2019 – Current

May 2020 – August 2020