

Nathan Eitrheim
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Am Waeldchen 14
Hauptstuhl, 66851
Germany

Education

Texas A&M University, College Station, TX
M.S. in Mechanical Engineering
December 2017
GPA 3.175/4.0

Thesis: *Measured Static and Rotordynamic Characteristics of a Circumferentially-Grooved-Stator/Smooth-Rotor Liquid Annular Seal: Influence of Viscosity, Eccentricity, Pressure, and Speed*

South Dakota School of Mines and Technology, Rapid City, SD
B.S. in Mechanical Engineering
December 2012
GPA 3.478/4.0

Successful completion of EIT/FE exam, South Dakota registration number E-11137
Category II certified vibration analyst through the Vibration Institute

Computer Skills

Fluent (CFD), SolidWorks (CAD), Abaqus (FEA), XLTRC² (Rotordynamic Suite), Matlab (Numerical Solver), and Microsoft Office Programs

Work Experience

Small business owner (part-time), Long Mountain Investments, LLC
College Station, TX, July 2016-Current

- Evaluate and invest in real estate projects:
 - Review project proposals and budgets
 - Perform sensitivity analysis of project variables to determine profitability and risk

Graduate Research Assistant, Texas A&M Turbomachinery Laboratory
College Station TX, January 2016-June 2017

- Design, set up, and conduct experiments of liquid annular seals for OEM industry customers:
 - Modify test rig as needed to complete customer testing requirements
 - Prepare test result reports for customers
 - Attend meetings with customers to discuss test results and explain the significance and applications of findings

Mechanical Maintenance and Reliability Engineer, LyondellBasell Chemical Company
Pasadena TX, January 2013-June 2015

- Led multiple projects including:
 - Replacement of a leak sensitive propylene condenser heat exchanger
 - Upgrade of a mechanical seal on a polymer extruder
 - Various pump upgrade projects
- Troubleshoot issues and oversee overhauls of mechanical equipment as part of day to day activities including:
 - Pumps, Compressors, Blowers, Rotary Feeders, Extruders, Cooling Towers, Heat Exchangers, Pressure Vessels, Piping, etc.

Mechanical Engineer co-op, LyondellBasell Chemical Company
Pasadena TX, May 2012-August 2012
Morris IL, January 2011-August 2011

- Extended the reliability of various mechanical systems in the petrochemical plant.
- Reduced maintenance costs associated with pneumatically actuated ball valves.

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- Gained valuable knowledge and experience with rotating and stationary mechanical equipment.

Undergraduate Research Assistant, SDSM&T Mechanical Engineering Department
Rapid City SD, September 2009 – December 2010

- Design, set up, and conduct experiments as part of an Army Research Laboratories funded project.
- Use equipment such as the FARO arm to create 3-D models of helmets.
- Use Schlieren and high speed imaging to visualize shock waves.

Campus Activities

Theta Tau Professional Engineering Fraternity, Omega Chapter in Rapid City, SD

- Offices held include Vice Regent and Treasurer

Volunteer Work

Site co-lead for LyondellBasell Global Care Day

- Coordinated the cleanup and repainting of a water damaged house at the Boys and Girls Harbor in La Porte, TX