

Laura Rathe

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OBJECTIVE

To obtain a full time position as a Structural Engineer.

EDUCATION

Missouri University of Science and Technology
M.S. Civil Engineering-Structural Dec 2011
GPA: 3.75/4.0

Missouri University of Science and Technology
B.S. Architectural Engineering May 2009
E.I. Certified **GPA: 3.61/4.0**

EXPERIENCE

Missouri S&T Civil Engineering Department Rolla, MO
Graduate Research Assistant Jan 10-Present

- Developed experiments with FRP (fiber reinforced polymer) using various pre-tensioned layers to demonstrate more ductile behavior and warning of failure
- Produced steel coupon test to prove FRP pre-tensioned layers theory
- Evaluated coupon test results for efficiency of FRP ductility improvement
- Constructed reinforced concrete beams for FRP pre-tensioned layers testing
- Designed corrosion experiment to test the affect of iron powder on the corrosion response of steel in reinforced concrete cylinders
- Produced samples for corrosion and FRP tests according to ASTM standards
- Executed various corrosion tests including: electrochemical impedance spectroscopy, potentiodynamic polarization, half cell potential, and linear polarization resistance
- Interpreted data from electrochemical tests for relevant conclusions
- Directed hands-on earthquake activity and built shake table adaptor for Kansas City Fox 4's "School Day at the K"
- Organized presentations with students to encourage engineering careers
- Developed educational program for Missouri S&T "Expanding Your Horizons"
- Reported Missouri S&T research activities to Missouri legislators

Hydro Aluminum North America Cassville, MO
Summer Intern-Engineering Department May 08-Aug 08

- Composed assembly instructions for aluminum doors
- Drafted AutoCAD designs sent to clients
- Developed catalog of aluminum door components
- Taught AutoCAD to other employees

COMPUTER SKILLS

Microsoft Office, AutoCAD, Gamry Software, Visual Professional

HONORS & ACTIVITIES

- Missouri University of Science and Technology-**Magna Cum Laude**
- Chi Omega Sorority-**Treasurer, Assistant New Member Educator**
- Omega Sigma (Service Organization)- **Secretary**
- Circle K-**Treasurer**
- Chi Epsilon
- Kickapoo High School-**Valedictorian**