

Joy McCutcheon

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Civil Engineering Professional

Environmental, Structural, Geotechnical, Foundation & Transportation Engineering

Adaptable, energetic young professional seeking to build on civil engineering passion, education, and experience to secure entry-level position. Dedicated team player and quick study combining proven leadership skills with the following:

BUSINESS LEADERSHIP:

- | | | |
|--------------------------------|----------------------------------|------------------------------|
| ✓ Project Management | ✓ Modeling / Engineering Design | ✓ Data Collection / Analysis |
| ✓ Staff Development Training | ✓ Water / Wastewater Treatment | ✓ Testing / Reporting |
| ✓ Team Leadership / Motivation | ✓ Safety / Regulatory Compliance | ✓ Resource Allocation |

TECHNICAL PROFICIENCY:

- | | | |
|-------------------------|----------------------|------------|
| ✓ SolidWorks Essentials | ✓ MS Project Manager | ✓ MS Excel |
| ✓ AutoCAD | ✓ MS PowerPoint | ✓ WinJULEA |

Education

UNIVERSITY OF ARKANSAS – Fayetteville, AR

Bachelor of Science in Civil Engineering (to be conferred Summer 2012)

Coursework Includes:

- | | | |
|---------------------------|--|-------------------|
| ✓ Structural Analysis | ✓ Environmental Engineering Design | ✓ Concrete Design |
| ✓ Structural Steel Design | ✓ Transportation Pavements & Materials | ✓ Hydrology |
| ✓ Soil Mechanics | ✓ Structural & Foundation Engineering | ✓ Hydraulics |

Senior Design Projects Include:

- ✓ **Bypass:** Member of 4-person team that managed complete design of 1-mile stretch of new Bella Vista bypass (with 4 12-foot-wide driving lanes and 11-foot median). Performed cost and traffic analysis and created 3 cross-sectional alternatives in alignment with all Arkansas State Highway & Transportation Department (AHTD) and American Association of State Highway & Transportation Officials (AASHTO) standards.
- ✓ **Hot Mix Asphalt:** Accomplished hot mix asphalt (HMA) mixture design with 3 colleagues, utilizing coarse and fine aggregate blend gradations developed in lab. Determined material binder content for each blend and crafted multiple options.
- ✓ **Concrete Building:** Currently designing concrete multi-story building to include complete slab, column, spacing, stirrup, stair, beam, girder, and reinforcement design.

Experience

PACE INDUSTRIES – Fayetteville, AR (2011–Present)

Engineering Intern building / testing 3D models for finite element analysis (FEA), conducting environmental data collecting / reporting, and managing key projects for \$400M global die cast manufacturer. Work closely with and under the supervision of Vice President of Engineering, Chief Design Engineer, and Director of Environmental Sciences.

- ✓ Successfully completed comprehensive SolidWorks training program.
- ✓ Key contributor to various environmental engineering projects at company's Harrison plant.

Additional work experience prior to and during completion of Bachelor's Degree include:

- ✓ Trainer & Server, Chili's Bar & Grill – Fayetteville, AR (2007–Present)
- ✓ Customer Service Associate, Lowe's Companies, Inc. – Rogers, AR (2005–2007)
- ✓ Server, Carino's Italian Grill – Rogers, AR (2003–2005)

Professional Affiliations

Arkansas Society of Civil Engineers (ASCE) ~ Member

