ERIN K. MAY
Research Engineer – Mechanical Engineer
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Highly motivated, self starting Mechanical Engineer looking for an engineering position in the City area. Over four years of experience working with engineering groups to design, permit, construct and test state of the art energy systems which utilize existing, alternative, and renewable energy resources.

Core Competencies

Project Management
Drafting (AutoCAD 2010, Inventor)
Process Engineering
Research Methodology
Project Leadership and Team Skills
Mechanical and System Design
MS Office Year (Word, Excel, PowerPoint)
Test, Measurement, and Emissions Controls

Professional Experience

Research Engineer,
(2009–Present)

Research Center
University of State

Design, construct, and test advanced gasification systems utilizing a number of biomass, industrial and complex organic fuels. Manage gasification projects, lead testing, and contribute to client and government reporting including data reduction and analysis of fuel types, syngas composition, and engine performance. Manage the drafting department, charged with all conceptual design work for new projects

- Managed the baseline testing and setup of an industrial engine and power generation system on-site, including design work and infrastructure modifications required to fuel the engine from the advanced biomass gasifier. Completed extensive baseline natural gas and initial syngas testing of the engine on site. All work was completed within budgetary and timeline constraints.
- Oversaw the design, material procurement, and construction of a portable trailer-mounted advanced biomass gasification system that is integral to a larger, mobile biomass-to-liquids production system.
- Worked directly with environmental and safety officers in the design, development, and implementation of a wastewater and solid residue treatment process for the pilot-scale advanced gasification system.
- Consulted on component design, creation of blueprints, project time lines and budgets, and worked closely with suppliers in ordering parts and systems for a number of pilot-scale energy research systems being constructed for both private and corporate partners.

Research Assistant,
(Year–Year)

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- Created blueprints, flow diagrams and P&IDs for renewable fuel and hydrogen production research systems, including a high-pressure fluidized-bed gasifier (HP-FBG), an entrained-flow gasifier (EFG) and a pilot-scale advanced gasification system.
- Conducted initial testing of the pilot-scale advanced gasification system, performed data reduction and analysis on test data and contributed to the final reports submitted to corporate and government partners.
- Created blueprints for portions of the Fischer–Tropsch system, a gas-to-liquids technology, attached to the HP-FBG and the EFG.
- Worked as part of a design team that installed a hydraulic lift system on a transport baghouse used for mercury sampling, which has saved thousands of dollars in construction and operating costs.

Education

- B.S., Mechanical Engineering, University of State, Year.
- Minor, Mathematics, University of State, Year.
- Member of The University of State Basketball and Track teams, Year-Year

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