

Susan Samuel

Investment Engineer - DuPont

Springfield, PA - Email me on Indeed: [indeed.com/r/Susan-Samuel/c68a3c896c3fac5f](https://www.indeed.com/r/Susan-Samuel/c68a3c896c3fac5f)

Authorized to work in the US for any employer

WORK EXPERIENCE

Investment Engineer

DuPont - Wilmington, DE - May 2013 to Present

- Manage and provide functional oversight, assessment, and validation of contractor provided controls processes.
- Review expenditures for field labor, physical progress, earned value and engineering hours
- Develop indicated total cost and cash flow forecasting through contractor prepared change orders and monthly project face sheet updates
- Issue and communicate project controls reports to the project team leader in accordance with the documented Project Controls Plans
- Conduct estimate validations to drive competitive and aggressive estimates in alignment with Estimate Validation guidelines and provide owners voice at gate reviews for those validations completed.
- Monitor SAP for accurate cost data from contractor systems and DuPont sites and ensure invoices are accurately recorded against the project.
- Lead project team in recording cost Vs. capital expenditures, by providing guidance in accordance with finance guidelines.
- Act as a liaison between project team and tax team, by maintaining communication for proper tax cost and rates.

Electrical Engineer

DuPont - Wilmington, DE - May 2008 to March 2013

- Provided and led electrical power system design, and execute Front End Loading (FEL) for large capital projects across DuPont, where projects range from new and/or replacement of electrical power distribution systems associated with facilities, processes, and infrastructures.
- Developed and implemented project management system such as Project Objectives, Scopes of Work for Venture Guidance Appraisal (VGA) and Current Appraisal of Cost (CAC) budgets and schedule.
- Facilitated Area Classifications reviews, The Facilities Engineering Agreement (TFEA) - Electrical reviews and participated in Project Hazard Analysis reviews.
- Produced designs, meeting the National Electrical Codes (NEC) and electrical scope of work, electrical estimate, equipment specifications for medium and low voltage switchgear, transformer, motor control center (MCC), variable speed drive, uninterrupted power supply (UPS), unitized distribution systems and power panels.
- Reviewed estimates and vendor budget quotes with the site and project team and perform vendor bid tabulations.
- Developed and maintained project load list by consulting with other lead discipline engineers and performed load list analysis.
- Utilized SKM Power*Tools software to conduct Power System Studies, Short Circuit Study, Load Flow Study, System Protection and Coordination Studies and Arc Flash Hazard Calculations.
- Provided recommendations in minimizing the Personal Protective Equipment (PPE) Category Level for personnel safety working near energized electrical equipment.

- Organized and conducted engineering design reviews and ensured all Safety, Hazards, and Environmental reviews are completed.
- Worked closely with investment engineering group and project team leaders to make sure the project was on track for cost and schedule.
- Assisted in the inspection and commissioning of the major electrical equipment procured for the project or site.

Manufacturing Engineer

ArcelorMittal - Coatesville, PA - July 2007 to May 2008

- Identify the factors that contribute to production delays in the plant operations
- Proposed and led projects to increase the production time in a safer environment.
- Responsible for planning and coordinating activities of internal and external engineering resources and other professionals required throughout the design and construction process.
- Meet with consultants, vendors and contractors for project completion.
- Worked closely with operators to ensure safe operating practices on the floor.
- Involved in day to day practices within the plant and contribute to quality control.
- Developed and enforced policy and procedures to ensure compliance with the company ordinances.

Electrical Engineering Intern

Division of Aviation - Philadelphia, PA - April 2006 to September 2006

- Inspected and supervised electrical and mechanical work for Automatic Temperature Control System Upgrade Project at Philadelphia International airport.
- Inspected and supervised electrical and general taxiway construction projects in Philadelphia Northeast Airport.
- Reviewed and analyzed engineering drawings and specifications to monitor execution.
- Approved per diem force account labor for owner.
- Maintained a daily construction report based on project status and progress.
- Supported engineers and consultants with coordinating and managing time, materials, equipment, scheduling and safety of employees and general public.

EDUCATION

Bachelor of Science in Electrical Engineering

Drexel University - Philadelphia, PA

June 2007

Bachelor of Science in Physics

Christian College

March 2002

ADDITIONAL INFORMATION

SKILLS, ABILITIES & ACHIEVEMENTS MATRIX | VALUE OFFERED

Technical Documentation • Specifications • Design • Testing • P&ID • Procurement • Procedures • Installation • Upgrades • Technical Support • Time Management • Process Improvement • Arc Flash Study • Project Cost Control • Project Estimate • Project Schedule • Cash Flow Forecast

CAREER SNAPSHOTS

Played a key role in the development of basic data, design, procurement, construction and preparing equipment to be replaced; managed contractors and vendors. Delivered design requirements on time and within cost

as the electrical lead for capital projects. Safely assisted commissioning of electrical/control equipment for Tedlar®, Kevlar®, and other expansions. Improved arc flash energies at 10+ operating sites through arc flash/coordination studies. Managed cost control activities by the contractors at three DuPont sites and assisted project team in meeting the project budgets.

SOFTWARE PROFICIENCIES

SAP-PS • Microsoft Office Suite| Visio • Lotus Notes • SharePoint 2013 • SKM Power*Tools