

# SARAH ADAMS

## Electrical Engineer Consultant

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📍 Coopersburg, PA

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## WORK EXPERIENCE

### Electrical Engineer Consultant

#### Lutron Electronics

📅 2020 - current

📍 Coopersburg, PA

- Collaborated with clients to assess their electrical engineering needs and provide tailored solutions, **achieving 97% client satisfaction**
- Utilized AutoCAD Electrical for schematic design, resulting in precise and efficient electrical plans
- Executed power system analysis using ETAP while ensuring system reliability and safety 99% of the time
- Used MATLAB/Simulink for modeling and simulation, which optimized control strategies for energy-efficient lighting systems

### Lead Electrical Engineer

#### Siemens Energy

📅 2017 - 2020

📍 Pittsburgh, PA

- Designed and prototyped PCBs using EAGLE, streamlining electronic component integration
- Performed energy modeling with EnergyPlus to optimize building energy performance and achieved 71% success rates
- Leveraged HBM Catman for data acquisition and analysis, **ensuring 99.9% accurate measurement and testing**
- Developed human-machine interface (HMI) systems with Wonderware InTouch, enhancing process control and monitoring efficiency by 47%

### Electrical Engineer

#### HDR

📅 2014 - 2020

📍 Pittsburgh, PA

- Operated AutoCAD Electrical for schematic design and documentation, ensuring compliance with industry standards
- Performed power system analysis and modeling using ETAP, which **improved systems' efficiency by 76%**
- Worked with architects and mechanical engineers to integrate electrical systems seamlessly into building designs, achieving 99% timely project completion
- Handled ANSYS Maxwell for electromagnetic analysis, optimizing motor and generator designs for performance and efficiency

## EDUCATION

Bachelor of Science

Electrical and Computer Engineering

#### Carnegie Mellon University

📅 2010 - 2014

📍 Pittsburgh, PA

## SKILLS

- AutoCAD Electrical
- ETAP
- MATLAB/Simulink
- EAGLE
- EnergyPlus
- HBM Catman
- Fluke
- Wonderware InTouch
- ANSYS Maxwell
- Microsoft Project

## LICENSE

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