

# Patrick McCunney

**Engineer II - Seeking dynamic, challenging environment**

Philadelphia, PA - Email me on Indeed: [indeed.com/r/Patrick-McCunney/b4c627fa2473ac35](https://www.indeed.com/r/Patrick-McCunney/b4c627fa2473ac35)

## WORK EXPERIENCE

### Engineer II

Southeastern Pennsylvania Transportation Authority - Philadelphia, PA - December 2009 to Present

- Directing engineer for overhaul of SEPTA's Bombardier Commuter rail fleet.
- Supervise and coordinate testing of newly delivered rail fleet from South Korea.
- Reverse engineer obsolete rail and bus components utilizing GD & T.
- Coordinate with vendors and suppliers in quality enhancement of said components.
- Computed and validated energy regeneration abilities of new railcars for city utility incentives.
- Inspector of manufacturing/assembly of rail cars at manufacturer's plant for several months.

### Engineering Assistant

Current Designs Inc - Philadelphia, PA - August 2009 to December 2009

- Assisted company president in programming, manufacturing, and assembly of fiber optic interfaces used in neurological research.
- Expedited customer requests, inquiries, and order fulfillment.
- Machined enclosures, populated circuits boards,

### Student Research Assistant

Temple University Engineering Composites Laboratory - Philadelphia, PA - May 2008 to September 2008

- Co-developed smart, nano-pipette for use in electrophoretic research.
- Assisted faculty in research of shock and vibration in PEM fuel cells.

### Technician

Liberty Vintage - Philadelphia, PA - March 2006 to September 2007

- Restored and serviced vintage motorcycles of all makes.
- Machined and fabricated components to complete repairs and restorations.
- Solved and mitigated mechanical and electrical issues based on customer's reports.

## EDUCATION

### B.S. in Mechanical Engineering

Temple University College of Engineering

August 2006 to May 2009

### A.S. in Science for Health Professions

Delaware County Community College

2004 to 2006

## SKILLS

AutoCAD, SolidWorks, ANSYS, EPA 608 Certified

#### ADDITIONAL INFORMATION

Experienced in engineering software AutoCAD, SolidWorks, ANSYS, Fluent/Gambit, and MatLab. Possess experience in and working knowledge of machining and fabrication. EPA 608 Certification.

Undergraduate Senior Design Project nominated for Temple's Ridenour Award for Best Overall Design; Electrolytic hydrogen production for use in internal combustion engines.

Motorcycle travel and photojournalist with approximately [...] page views of a report documenting a journey across the United States in September 2012.