

# Matthew Ercolino

## Project Consultant-Electrical Engineer

Hamilton, NJ - Email me on Indeed: [indeed.com/r/Matthew-Ercolino/7f767c51b6661f19](https://www.indeed.com/r/Matthew-Ercolino/7f767c51b6661f19)

### WORK EXPERIENCE

#### **Project Consultant-Electrical Engineer**

LTK Engineering Services - Ambler, PA - August 2013 to November 2015

Technical Consultant for rail system projects nationwide;

Rail-vehicle design technical consultant.

#### **Electrical Engineer-Technical Consultant**

Vehicles, Parsons Corporation - Philadelphia, PA - January 2013 to August 2013

Engineering support for rail vehicle testing and commissioning for various transit agencies nationwide

Rail vehicle design technical consultant; Systems Design, APM projects

#### **Principal Engineer**

Amtrak - January 2011 to January 2013

Alternative Maintenance High Speed Rail

Engineering system design for High Speed Trainset heavy overhauls, budgetary responsibility of \$155M

Staff supervision and management of direct reports

Department wide support and program management

Program site research selection and management

Multi-site management

Contract negotiations nationally and internationally

Specifications, scopes of work, procurement, commercial liaison; Multi-state operations

RFP development and issuance

Root Cause Analysis

Engineering design and implementation

#### **Sr. Engineer HSR Trainset Management**

Amtrak - May 2008 to January 2011

Engineering project management

Systems analysis, and remote support

Project management (international)

Specification authoring and consultation

Field engineering

High-speed video system design and installation

CCTV System selection and installation

New technology usage advocacy and implementation

Inter-departmental projects

Life safety projects

Consultant liaison

Specialty tooling design and procurement

New equipment research

Copyright agreements

## **Overhaul Engineer**

Amtrak - March 2005 to May 2008

HSR overhaul planning, specification authoring  
Modification validation, system usage studies  
Test equipment design and selection;  
Scope of work delineation, contractor sourcing  
Third party test planning and oversight  
Special tooling fabrication  
Troubleshooting support, operations support  
Black box events analysis (event recorder)  
Portable test equipment sourcing and distribution  
Root Cause Analysis investigations  
Product evaluations for purchase  
Training coordination for special applications  
Specialized instrumentation applications  
System manual authoring, Vehicle retrofit designs  
Analysis results metrics and tracking  
Prototype design, PC repair  
Standards research, Project management  
First article inspections  
Offsite testing coordination and facilitation  
Specialized hardware applications  
Training on specialized equipment  
Technical writing, Procedure development

## **Owner, Operator**

ERCOLINO ELECTRIC - Doylestown, PA - April 1998 to June 2006

Commercial and residential service upgrades 200 & 400 amp  
Commercial power configurations (indoor transformers and distribution)  
Commercial and residential lighting  
Industrial power measurement  
Industrial Dynamometer control and instrumentation  
CAT 5 and CATV cabling and installations  
Industrial transportation consulting  
Computer networks and configurations  
Emergency generator maintenance and installation  
Industrial test equipment design  
Data acquisition

## **Test Engineer**

Amtrak - November 2003 to March 2005

Vendor design reviews  
Operational consulting for high-speed rail  
Troubleshooting development  
Instrumentation selection and purchasing  
Data analysis and acquisition  
Industrial design, reverse engineering  
Test procedure design, engineering, and implementation  
Specification authoring

Modification program oversight  
Electrical modification design  
Proprietary software installations

### **Sub Contractor**

ERCOLINO ELECTRIC - August 1998 to November 2003

ESW America, Telford PA

EPA CERTIFIED EMISSIONS TEST FACILITY

Plant Engineering

Dynamometer design and maintenance Equipment design and fabrication

ISO 9001 Conformity, LAN Maintenance

PM Program on all machinery

Equipment purchasing, Electrical installations

### **Test and Commissioning Supervisor**

Bombardier Transportation - September 2002 to February 2003

Testing and commissioning of high-speed  
trainsets and locomotives for AMTRAK

Network troubleshooting, and repair, dynamic testing, data analysis, data acquisition for commissioning

Commissioning procedure writing and re-writing

Embedded systems installation, configuration, repair, and troubleshooting

AC-DC-AC power systems troubleshooting

High voltage system maintenance and troubleshooting

High speed PLC configuration and troubleshooting

FRA regulations conformity

Supervisory responsibilities for direct and indirect reports

### **A Team Troubleshooting**

Bombardier Transportation - New York, NY - January 2002 to September 2002

A Team Troubleshooting

Testing and commissioning of new millennium Subway Cars for Mass Transit Authority of New York City  
Calibration, troubleshooting, methods development, training, repair, analysis, tracking, commissioning,  
staffing, network administration, workstations configurations, laptop configurations

### **Supervisor**

Bombardier Transportation - March 2000 to September 2001

Testing and commissioning of high-speed trainsets and locomotives for AMTRAK

Network troubleshooting, and repair (Ethernet, Token Ring, LON, FIP)

Dynamic testing, data analysis, data acquisition for commissioning

Commissioning procedure writing and re-writing

Embedded systems installation, configuration, repair, and troubleshooting

AC-DC-AC power systems troubleshooting

High voltage system maintenance and troubleshooting

High speed PLC configuration and troubleshooting

### **EDUCATION**

### **B.S. in Electrical Engineering Technology**

DREXEL UNIVERSITY - Philadelphia, PA  
September 2009 to June 2013

**Accredited National Engineering Honor**

Drexel University  
October 2011

**Core Requisites for Engineering**

BUCKS COUNTY COMMUNITY COLLEGE - Newtown, PA  
January 2006 to June 2009

**Associates in Engineering**

CHI INSTITUTE - Southampton, PA  
November 2001 to January 2002

**VOCATIONAL**

UPPER BUCKS VOCATIONAL TECHNICAL SCHOOL - Perkasie, PA  
January 2000 to April 2000

**Certificate in ELECTRICIAN PROGRAM**

CHI INSTITUTE - Southampton, PA  
July 1997 to March 1998

**Associates in Technology**

The College at Walnut Hill - Philadelphia, PA  
1989 to 1990

**LINKS**

<http://www.linkedin.com/in/ercolinomattthew>