

# NATHANIEL STEIER

10 Smithtown Blvd Apt #3B • Smithtown, NY 11787 USA

207.329.8746 • [nsteier@gmail.com](mailto:nsteier@gmail.com) • [www.nsteier.com](http://www.nsteier.com)

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## PROJECT ENGINEER / MANUFACTURING, PE

### Electronic Contract Manufacturing / Heavy Industrial Repair / Railway Manufacturing

Exceptionally strong technical writing and communication skills. Documentation Control / Change Management expert. Able to function independently. Flexible and able to work off-shifts as needed. Strong trouble-shooting skills and commitment to quality.

### CORE COMPETENCIES

- **Automation:** Siemens PLC • Step 7 v5.5 • TIA Portal v13 • STARTER
  - **Process Knowledge of:** Cable Harnesses • Switchgear Cabinets • SCADA Cabinets • VFD • Motor Controllers
  - **Assembly Process of Electronic Semiconductors:** Tooling, SMT and Through-Hole (Radial, Axial, DIP) processes
  - **Quality Management / Documentation Control:** BOM • Router/Traveler • ECO • ISO 9001 • ISO/TS 16949 • IRIS
  - **Machine Programming Knowledge of:** Schleuniger Cayman • Aegis CircuitCAM • Schleuniger PS 9500 P • Samsung CP40
  - **Computer Aided Design (CAD) programs:** AutoCAD Electrical 2016, 2015 • AutoCAD 2009, 2002 • Pro/ENGINEER • Revit 2013 • Rhino3D 4.0 • Sketchup • SolidWorks 2011 • OpenSCAD
  - **Mathematics programs:** Mathematica • Maple • Matlab • Octave • R (programming language) • Minitab
  - **Enterprise Resource Planning (ERP) / Operations software:** OpenERP (Oodo) • Intutive • eSOMS / SOMS • FASTP
  - **Embedded programming:** PAL using ABEL-HDL • Spice • Cypress PSoC • BeagleBone Black • 8052 • Arduino
  - **Operating Systems:** Windows 95, NT, 2000, XP, 7 • Mac OS X • Linux Mint, Ubuntu, Fedora Core • Android 4.4 (KitKat)
  - **Software Programming Languages:** Java • C/C++ • 8052/assembly • Python • (X)HTML • MySQL • R • Ruby • JavaScript
  - **Graphic Design:** GIMP • Bryce • Maya • Macromedia Fireworks & Illustrator
  - **Databases:** MySQL • Microsoft Access • SQLite • MongoDB
  - **Productivity:** Microsoft Office (2016 – 2003): Word, Excel, Powerpoint, Access • Visio • Project • OpenOffice • LibreOffice
  - **Computer Networking and Web:** Ethernet (IEEE 802.3) • WiFi (IEEE 802.11) • RS-232 • TCP/IP • Bluetooth (IEEE 802.15.1) • Apache • Samba • Tomcat • Drupal • Node.js • Wireshark
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## PROFESSIONAL EXPERIENCE

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### LEAD COMMUNICATION ENGINEER

**MAY 2016 – JUN 2016**

### WSP|PARSONS BRINCKERHOFF

**New York, NY**

*Communication Group for the Second Avenue Subway (SAS) for the Track, Signal, Traction Power, and Communications Systems contract.*

- Performed onsite inspections at the 96<sup>th</sup> St., 86<sup>th</sup> St., 72<sup>nd</sup> St., and 63<sup>rd</sup> St. stations as well as interconnecting rail tunnel.
- Oversaw communication system testing in coordination with client, contractors, and enduser groups.

### PROJECT ENGINEER

**OCT 2014 – APR 2016**

### POWER RESOURCES INTERNATIONAL

**West Babylon, NY**

*Automation solution provider for SCADA, PLC, and network systems for infrastructure and transit. Siemens distributor.*

Project Engineer for portions of the Tappan Zee Bridge and Atlantic Terminal project.

- Designed mimic bus cabinet from client specification. Performed procurement, change management, testing. Shipped.
- Designed SCADA cabinets from client specification. Performed procurement, change management, testing.

- Performed onsite troubleshooting of Variable Frequency Drive (VFD) for a substation motor-generator set.

## CONSULTANT, PROPRIETOR

**MAR 2012 – OCT 2013**

## NSTEIER LLC

**Portsmouth, NH**

*New Product Introduction and manufacturing consultancy based in Portsmouth, New Hampshire.*

Electronic New Product Introduction. Documentation Control / Configuration Management specialist. Onsite technology troubleshooting for residential and small businesses. Technology tutor.

- Bid on a **RFID-controlled access system** for a small business contract.
- Participated in **Portsmouth Public Library** to **introduce technology** to youths.

## WORK CONTROL GROUP / TECHNICAL DIRECTOR

**JUN 2009 – MAR 2012**

## PORTSMOUTH NAVAL SHIPYARD

**Kittery, ME**

*United States Navy shipyard in Kittery, Maine for overhaul and repairing US Navy nuclear submarines*

Prepared and authorized the energy source isolations necessary to protect personnel and both nuclear and non-nuclear shipboard equipment during Los Angeles- and Virginia-class submarine repair. Investigated work and test control problems to determine corrective actions for issues. Authorized and executed tests of non-nuclear ship systems.

- As **Point-Of-Contact (POC) for vendor work** on SSN-725 (USS Helena) and SSN-774 (USS Virginia) projects, was the liaison for multiple parties including Navy personnel, zone managers, shop supervisors, and vendors.
- Pre-availability **project preparations** included **AutoCAD** drawings for SSN-725 (USS Helena), SSN-751 (USS San Juan), and Portsmouth's first ever Virginia-class availability SSN-774 (USS Virginia)
- **Off-yard TDY** (Temporary Duty) to **Pearl Harbor Shipyard** for SVRLA shipalt on SSN-766 (USS Charlotte)
- Three Portsmouth Naval Shipyard **On-The-Spot awards for Excellence**.
- DoD Security Clearance through **Secret**.

## PROCESS ENGINEER / DOCUMENTATION ENGINEER / NEW PRODUCT

**FEB 2008 – MAR 2009**

## INTRODUCTION

## SAUNDERS ELECTRONICS

**South Portland, ME**

*Full service electronic contract manufacturer in South Portland, Maine for SMT, through-hole, and electromechanical assemblies.*

Responsible for product BOM integrity, router accuracy, and documentation creation for products including both medical, military, and high-voltage devices. Products included UL items and NEMA cabinets.

- **Automated** portions of a **product line**, including manufacturing equipment programming, with **increases in annual revenue** targeted at **\$100,000**.
- **Team leader** on multiple **New Product Introduction** projects.

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## EDUCATION & TRAINING

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- **Professional Engineer (PE) license** from #14004 from **New Hampshire**. Roster listing: **EE**. Dec 2012.
- **Professional Engineer (PE) licensure** application submitted for **New York**. May 2014.
- Enrolled part time in **M.S. in Technological Systems Management program** at SUNY Stony Brook. Fall 2014.
- **B.S.E.E. (Bachelors of Science in Electrical Engineering)**. University of Southern Maine. Aug 2007.
- **Communication Based Train Control (CBTC)** continuing education IEEE Certificate of Completion.
- **IEEE (Institute of Electrical and Electronics Engineers)** member since 2005.

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## LANGUAGE

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**Native:** English. Technical writing proficient. Guest technical speaker.

**Working knowledge:** Spanish (**Español**) • Hebrew (**עברית**)