

Jonathan M. Martinez

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Detailed oriented Engineer with analytical and problem-solving skills seeking Software Engineering opportunity to provide viable solutions by leveraging educational knowledge and technical experience.

SKILLS

Knowledge: Core Java, JavaScript, React JS, CSS, HTML, Git, NPM
Familiar: C++, Node JS, PostgreSQL, MongoDB (NoSQL), Heroku
IDE: Visual Studio Code, IntelliJ, Sublime
OS: Windows, Linux

Applications: Microsoft Office, MATLAB
Networking: TCP/IP, Security
Languages: English, Spanish

CERTIFICATIONS

Amazon Web Services - AWS Certified Cloud Practitioner, Verification# 0CZY6HN1H2EQ1F54
CompTIA Certified Security + CE, Verification # 2SPQMYXHSDVQQ4WK
Fundamental of Engineering Certificate, NCEES FE

EDUCATION

Bachelor of Engineering in Electrical Engineering, The City College of New York **3.8 GPA**

EXPERIENCE

Electrical Engineer **2016-Present**
MTA Long Island Railroad, New York

- Support the overall design cycle for new railcar system software, from concept to prototype to implementation.
- Review software design specifications to verify compliance and provide recommendations for improvement.
- Act as a liaison between the software development teams and IT for system implementation and deployment
- Investigate system software malfunction and device toolsets to determine root cause of failure.
- Developed and modified Basic codes for programmable logic controller to automate system operation.
- Supported inspection of microprocessor-based systems to assist developing written technical evaluation.
- Develop the process for performing and documenting benchmark testing.
- Research new technology to retrofit or add modern capabilities to existing equipment.
- Created technical documents such as test procedures, maintenance instructions and operating procedures.
- Familiar with Bash and PowerShell scripts to maintain and automate tasks for microprocessor-based systems.
- Coordinate activities to direct, supervise and plan tasks with craft, consultants, vendors and stakeholders.

Engineering Aide – Quality Assurance **2015 - 2016**
Con Edison, New York

- Maintained an action tracking database to keep track of company compliance with State and Federal regulations.
- Configured a database to organize and keep track of all QA documents in support of data management.

Research Engineer **2014-2015**
CCNY Integrated Photonics Lab, Engineering, New York





- Designed and built an experimental line-focused ultrasound transducer for new 3D imaging approach.
- Implemented LabVIEW software to tune electro-mechanical setup and capture multiple 2D optical images
- Used MATLAB to render 3D views of the object under test by merging multiple 2D images.
- Published “*Optical Ultrasound Imaging Using a Lined-Scanned Transducer*” on the Microwave and Optical Technology letter. Vol. 59, 770-773 in collaboration with mentor and peers.

PROJECTS

Java-Database **November 2020**

- Integrated Java with SQL CLI commands to queries and update a music data content in SQLite database.
- Implemented Java Prepare Statement as preventive security to mitigate SQL injection attacks.
- GitHub link: <https://github.com/jmartin-code/Java-Database>

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Task Tracker

October 2020

- Created a Task Keeper web application based on React JS, Material-UI, CSS style and HTML.
- This app features a modern looking UI with the functionality to add tasks and delete tasks by subject.
- The web app can be easily integrated with NoSQL database such as MongoDB and NodeJS for back-end process.
- GitHub link: <https://github.com/jmartin-code/Task-Keeper>