

WILLIAM BARTOS

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Experience

Nokia

June 2017 – August 2017

Embedded Software Development Intern

- Developed embedded software in C/C++ for remote radio head R&D and prototyping in the mobile network space
- Programmed an interactive command line interface, providing an efficient tool for embedded development
- Improved our custom Yocto based operating system designed for digital front end devices
- Optimized existing code and expanded functionality leading to a more robust and modern codebase

Maser Consulting P.A.

June 2015 – Jan 2017

Engineer

- Led an initiative to automate manual business tasks in coordination with company management
- Programmed a shop drawing automation application, leading to a 90% reduction in task time
- Engineered solutions for sophisticated water treatment systems including electrical and control system design

Education

New Jersey Institute of Technology

Ying Wu College of Computing Sciences

Jan 2017-Dec 2018 (Expected)

- Masters of Science, Computer Science
- GPA: 4.0

Rutgers University

School of Engineering

Aug 2010-May 2015

- Bachelors of Science, Bioenvironmental Engineering, May 2015

Personal Projects

MarkoviRhyme – [GitHub](#)

- A Python based Markov Chain generator to create successive rhyming sentences via natural language processing

Shop Drawing Stamp and Transmittal Generator – [GitHub](#)

- A Python based program to parse Excel spreadsheets and generate PDF forms for project review processes
- Automates the administrative portion of an engineering review from over thirty minutes to less than one minute
- Worked with senior management to distribute the program companywide in accordance with company standards

Brilcast – A Microlocal Weather Service – [GitHub](#)

- Climate data is gathered from sensors wired to a Raspberry Pi, sent to a Flask based webserver, and stored in a SQLite database
- Data is visualized in real time using D3.js on a website written with JavaScript, HTML and CSS

Software Skills

Highly Proficient: C, C++, Python

Proficient: Java, SQL, Bash, Unix/Linux, Flask

Familiar: Javascript, D3.js, HTML, CSS