

WILLIAM BARTOS

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Experience

Embedded Development Intern

Nokia - Murray Hill

3D Active Antenna System Group

June 2017 – August 2017

- Developed embedded software in C/C++ for remote radio head R&D and prototyping in the mobile network space
- Programmed new software and features, greatly improving development efficiency throughout the entire hardware stack
- Optimized existing code and expanded functionality leading to a more robust and modern codebase
- Demonstrated programming aptitude and flexibility by writing clean code for complex, multi-layered hardware systems

Engineer/EIT

Maser Consulting P.A.

Water Department

June 2015 – Jan 2017

- Developed Python applications to automate review processes, leading to over a 90% reduction in task time
- Took the initiative and coordinated with management to develop software for business development
- Designed computational models for simulating large scale water distribution systems in WaterCAD
- Engineered solutions for sophisticated water treatment systems including electrical and control system design

Education

Ying Wu College of Computing

New Jersey Institute of Technology

Jan 2017-

- Masters of Science, Computer Science
- GPA: 4.0

School of Engineering

Rutgers, the State University of New Jersey

Fall 2010-May 2015

- Bachelors of Science, Bioenvironmental Engineering, May 2015

Personal Projects

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 – brilcast.com

- Climate data is gathered from sensors wired to a Raspberry Pi, sent to a Python 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

WikiCrawler– [GitHub](#)

- A Python based Wikipedia crawler that calculates and plots the distance from a random article to the Philosophy page

Software Skills

- C, C++, Python, SQL, Java, JavaScript, Unix, Bash, HTML/CSS, Git