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 exploratory design prototyping
- 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, Java, JavaScript, Unix, Bash, SQL, HTML/CSS, Git