Maxwell B. Garber

(412) 596-2294 | max.garber@gmail.com | 3401 Butler St., Apt. 3 Pittsburgh, PA 15201

Education University of Pittsburgh (Pittsburgh, PA)

Computer Engineering, *BSc.* April 2017

Chemistry and **Molecular Biology**, *BSc.* April 2012

Experience

Embedded Software Engineer *Philips Respironics Core Engineering Group* July 2017—Current

Developed low-level embedded linux software in C and C++ for sleep and respiratory medical devices on an agile-scrum team. Also aided in localization and translation issues for UI software.

Full-Stack Web Developer (Co-Op) *Net Health* Fall 2015, Summer 2016, & Spring 2017

Developed in C#, TypeScript, SQL, and Javascript on an agile-scrum team building a SaaS electronic healthcare records platform and medical facility management suite.

Research Specialist *University of Pittsburgh* May 2012—September 2014

Bioinformatics & genomics of microbial viruses using high-throughput genome sequencing. Investigated the DNA site-specificity, biochemistry, and biophysics of the Bxb1 viral integrase.

Undergraduate Researcher *University of Pittsburgh* May 2009—April 2012

Mentored and trained other undergraduates in safety, methods, analysis, and presentation. Investigated the biochemistry & molecular biophysics of site-specific protein–DNA interactions.

Skills & Coursework

Engineering in object-oriented and procedural languages: Java, C, C#, C++, Objective-C, Swift, and Python. Low-level, embedded systems, and FPGA environments: linux kernel extensions, MIPS, and x86. Full-stack web development: TypeScript, JavaScript, and SQL. Analysis & design of electronic circuits & systems, modeling & simulation of physical, chemical, and biological systems.

CS: *Data Structures, Algorithms, Assembly Language & Computer Organization, Systems Software, Operating Systems, Computer Architecture, and Software Engineering.*

EE: *Linear Circuits & Systems, Circuit Analysis & Design, Electromagnetics, Digital Logic, Digital Systems Laboratory, Modeling & Simulations, Application of Fields & Waves, and Advanced Digital Design.*

Awards & Honors

Walter C. Snyder Study Abroad Scholarship (*ENSEA, France* 2015)

Samuel D. Colella Award for Undergraduate Research (2010)

Chancellor's Undergraduate Research Fellowship (2010)

Biological Sciences Departmental Mentoring Fellowship (2009 & 2010)

Foreign Languages & Extracurriculars

French *(intermediate)*, **Japanese** *(intermediate)*, **Portuguese** *(elementary)*, and **Danish** *(beginner)*

Eagle Scout, Boy Scouts of America Troop #243 *(*2007)