Ronald H. Baker *January 24, 1991*

ronald-baker@brown.edu • 401.585.8225 •
www.linkedin.com/in/rhbaker2014
115 Waterman Street • 02906 • Providence • Rhode Island

Academic Experience *(First Generation)*

Brown University — PROVIDENCE, RHODE ISLAND
Master's of Science in Computer Science — *2016 – present*
Expected Graduation: May 2019

Primary Focus of Study: Computer Systems; Software and Algorithm Optimization

Relevant Coursework: Computer Systems(F16); Operating Systems(S17); Foundations of Prescriptive Analytics (F17)

University at Buffalo: The State University of New York — BUFFALO, NEW YORK
Bachelor's of Science in Electrical Engineering — *2011 – 2014*

Primary Focus of Study: Embedded Systems and Application; Hardware & Software Integration; General Robotics

Relevant Coursework: Engineering Computation (S12); Engineering Economy (S12); Circuit Analysis (F12); Electronic Devices & Circuits (F12); Electromagnetic Theory (S13); Embedded Systems and Applications (F13); Applied Probability & Statistics Inferences (F13); Robotics Algorithms (S14); Hardware & Software Integration System Design (S14).

Technical Skills

Programming Languages: C/C++ *(professional proficiency +4 years)*; Java *(intermediate competency +3 years)*; Python *(intermediate competency +2 years)*

Technical Expertise: Ubuntu (Linux); Networking Concepts; Cross Platform Development; CMake; Graphical User Interface Development using Qt Creator; Linear Algebra Computation using the Eigen 3 C++ API, Java, Python, Algorithm Optimization *(Expanding Interest)*

Professional Experience

Brown University — PROVIDENCE, RHODE ISLAND
Company Description: The seventh-oldest college and private Ivy League research university in Providence, Rhode Island, United States.

Graduate Student Researcher *Under the supervision of Stefanie Tellex* — *Jun '17 – Aug '17*
Augmented Reality tags localization within generated map from robotic movement and localization

Naval Undersea Warfare Center — NEWPORT, RHODE ISLAND
Company Description: The Navy's full-spectrum research, development, test and evaluation, engineering, and fleet support center for submarine warfare systems and many other systems associated with the undersea battle-space.

Software Engineer / Engineering Researcher — *Apr '15 – present*
Embedded graphical user interface development using QT Creator for cross-platform development.
Linear Algebra calculation developed in the Eigen 3 API for signal processing algorithms.
Iridium satellite modem software written using the RS-232 standard for data transmission.

ATTO Technology — GETZVILLE, NEW YORK
Company Description: A manufacturer of storage connectivity products for data-intensive computing.

Embedded Software Engineering Intern — *Sep '14 – Jan '15*
Developed dual-boot image rollback feature for ATTOs FibreBridge 7500 Fibre Channel Storage Controller. Software used in release build of fibre bridge.

Praxair Incorporated *six consecutive summers* — TONAWANDA & NIAGARA FALLS, NEW YORK
Company Description: The largest industrial gases company in North and South America and one of the largest worldwide.

Electrical & Mechanical Engineer / Technical Scholarship Intern — *Jun '08 – Aug '13*

'13 **Light Emitting Diode Power Consumption and Analysis Engineer**
International data collection and retrofitting project which was aimed to reduce power facilities energy expenditures.

'12 **Industrial High Power Machinery Reliability Engineer**
International data collection to conduct Pareto Analysis in an effort to recognize trends in equipment reliability and failure.

'08 - '11 **Electrical and Mechanical Reliability and Technical Assessment**
Conducted failure analysis and rehabilitation of high-power industrial equipment used for cryogenic gas distillation.

Please refer to my Linked-in profile for a more complete list of work experiences along with recommendations.

Extra Curricular

Brown Socially Responsible Investment Fund — PROVIDENCE, RHODE ISLAND
Company Description: A student-led investment group managing 130,000 dollars of Brown University Endowment.

Personal Interests

Non-exhaustive and in alphabetical order: Art, Economics, Finance, Music Development, Philosophy, and Travel.

Additional Information: Self-taught programmer/developer until entering Brown University's Computer Science Graduate program.