

Daniel Agar

CONTACT INFORMATION

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PROFESSIONAL EXPERIENCE

Software Developer and Consultant

Gainesville, Florida

Freelance

August 2016 – Present

- Collaborated with multiple unmanned aerial vehicle companies to develop key software solutions, including autopilot control systems, ground control stations (across Windows, Linux, MacOS, iOS, Android), and payload management.
- Using PX4, Mavlink, ROS, OpenCV, QGroundControl.
- Made significant open source contributions to [PX4](#) and [QGroundControl](#)
- Provided extensive consultation on design and novel applications of robot/drone technology

Software Engineer

Gainesville, Florida

Prioria Robotics, Inc

December 2014 – August 2016

- Design and implementation of all aspects of UAV development including the autopilot, ground control station, and payloads

Software Developer

Ottawa, Ontario

IBM

January 2012 – August 2014

- Provided development work on IBM's J9 Java Virtual Machine
- Extracted core memory management technology from IBM's Java Virtual Machine and used to improve performance of the Python and Ruby
- Worked with C, C++, Java, Python, and assembly (x86, ppc, s390, arm) across Linux, Windows, AIX and z/OS.

Extreme Blue Technical Intern

Ottawa, Ontario

IBM

May 2011 – August 2011

- Successfully implemented experimental JVM technology (packed objects) to improve product performance and reduce memory footprint.
- Demonstrated financial feasibility and secured further executive investment.

Software Developer

St. John's, Newfoundland

Oceanic Consulting Corporation

July 2009 – September 2010

- Extended research simulation software and adapted for commercial use.
- Created custom 3D visualization and mesh editing tools with OpenGL and Qt.

EDUCATION

University of Waterloo

Waterloo, Ontario

BSc, Honours Computational Physics

Computer Science Minor

2009

- Studied a wide range of topics in applied and theoretical physics, mathematics, and computer science

SKILLS

Languages

- Proficient in C, C++, Python, Java, Bash

Operating Systems

- Very experienced with GNU/Linux, MacOS, Android and Windows

Software

- Eclipse, Visual Studio, Git, Subversion, GDB, Matlab, MySQL