Robert Andrew Conrad

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EDUCATION

- **University of Ottawa**   Ottawa,Canada
  Bachelor of Applied Science,Computer Engineering (Management & Coop) Cum laude   *Sept 2016 - May 2021*
  - **Topics**: Programming, Algorithms, Digital Designs/Architecture, Database, AI, RTOS, Networking etc

EXPERIENCE

- **Quantropi**   Ottawa,ON
  Engineering Intern   *May 2020 - Dec 2020*
  - **DevOps**: Developed a QA & CI process for dynamic C++ & Python SDK delivery using CMake and Bash
  - **QA**: Researched testing automation for randomization and integration using CMake and xUnit frameworks

- **Ciena**   Ottawa,ON
  Software Developer, Coop   *Sept 2019 - Dec 2019*
  - **Distributed Network Management**: Develop logging mechanism in Go for micro service network management tool, including logging consolidation,export and API configuration
  - **Database Debugging**: Debug NoSQL database API in Django and Swagger to correct parameter ignored on database requests

- **Pleora Technology**   Ottawa,ON
  Embedded Software Developer   *Jan 2019 - April 2019*
  - **Imaging Firmware Bootloader**: Created in C++, expanded functionality to recognize new camera specifications with board boot loader and allow custom GenICam firmware payloads
  - **License Manager**: Created in C++ and C#. Expanded functionality for internal tooling and created a offline licence manager tool to authenticate pre-approved tokens for offline licensing

- **Nordiasoft**   Gatineau,QC
  Mobile Application Developer   *May 2018 - August 2018*
  - **Android**: Created Android application from scratch in Java and Kotlin to mimic radio controlled hardware utilizing a software defined radio for communication and general phone hardware for all other functionality

PROJECTS

- **uOttawa Roboboat**   University of Ottawa
  Software Co-lead   *September 2017 - December 2018*
  - **Architecture**: Designed systems architecture for multi competition autonomous surface vehicle in ROS, Python and C++. Primary focus on control integration and core behaviour systems
  - **Algorithms**: Worked alongside masters student to determine algorithms to solve each navigation challenge, including RA* and decision tree

EXTRA CURRICULARS

- **uOttaHack**: Organizer of logistics for first two occurances of uOttawa first MLH Hackathon
- **IEEE**: Former Student Branch Treasurer and Chair/President, Ottawa Section Student Representative
- **ESSCO**: Board Chair for Engineering Student Societies Council of Ontario. Maintained impartial accountability
- **Ottabotics**: Community and Business Manager for University of Ottawa former Robotics club

PROGRAMMING SKILLS

- **Main Languages** Python, Golang, C/C++, Bash, Java

- **Side Languages** html/css/Javscript,C#,

- **DevOps** Jenkins , Bamboo, CMake, Docker, Vagrant, AWS,Testing

- **Technologies** SQL, Android, ROS, OpenCV, Postgresql , Django