Robert Andrew Conrad

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EDUCATION

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

EXPERIENCE

Face4 Systems — Ottawa, ON
Software Engineer — *July 2021 - Present*
- **Mobile**: Developing cross platform mobile apps for access control using image processing in Flutter and C++
- **Development**: Develop UI, testing and CI pipelines for projects within my portfolio

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 a offline licence manager tool for offline licensing in C#

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

UNIVERSITY 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** Golang, C/C++, Flutter/Dart, Python, Bash,

- **Side Languages** Html5, CSS3, Javscript, C#, Java

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

- **Technologies** SQL (PostgreSQL, SQLite), Android, ROS, OpenCV, Django , WebAssembly (WASM)