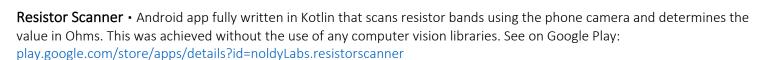




Computer Engineering University of Waterloo

## **PROJECTS**



Morse Code Encoder & Decoder • Android and iOS app that transmits and decodes Morse code using the phone camera. See on Google Play: play.google.com/store/apps/details?id=ca.noldy.www.ledmorse (3K+ downloads)

Personal Website • Personal website built from scratch using HTML, CSS and JavaScript, which contains more info about other projects. Visit at: ece.uwaterloo.ca/~a36rodri/AR.html

#### RELEVANT EXPERIENCE



### Mobile Developer | Oanda Corporation

Toronto, ON

- Worked on new features for both iOS and Android platforms of Oanda's Forex Trading app.
- Worked along with designers in the implementation of custom feedback channels using Firebase Remote Config.
- Ported features and trading tools from phones to Android tablets and iPads.
- Improved existing multi-theme support in both Android and iOS trading platforms.

#### **Test Automation Developer** | Laborie Medical Technologies

Mississauga, ON

- Improved and validated existent tools to speed up by a factor of 6x the testing of medical devices software.
- Developed C# tool to generate reports out of existent test plan data on VSTS.
- Added automation support for test steps related to medical software applications.

#### **System Software Developer** | Tigercat Industries

Paris, ON

- Developed a system in C# to visualize machine production data collected from sensors, with positive customer feedback.
- Developed multithread TCP/IP network socket application for transceiver simulations.
- Wrote maintainable and extensible code for web (HTML, JavaScript, PHP) and .NET applications.
- Implemented and documented algorithms for processing and displaying sensor data in C#-generated graphs and reports.

#### **Device Research** | Canadian Bank Note

Ottawa, ON

- Researched and tested different camera systems for different applications and cost reduction purposes.
- Developed an understanding of digital sensor functionality and hardware limitations for face recognition systems.
- Used Raspberry Pi for interfacing to camera modules.

#### SKILLS HIGHLIGHT </>

Languages • C/C++, Kotlin, Java, Swift/Objective C, C#, Python, Assembly, Bash Shell Scripting, JavaScript. Tools • Android Studio/ IntelliJ, XCode, Firebase, Amplitude, Git, VSTS, Jira, Phabricator, MATLAB, Eclipse, Flutter, NLP.

# ADDITIONAL EXPERIENCE \( \Psi \)

- Military Service, Navy. Aug 2012 Aug 2013, Havana, Cuba.
- Silver Medal winner at the National Physics Contest 2012, Havana, Cuba.
- Represented Cuba in the 13<sup>th</sup> edition of Mini Basket in Piazza International Tournament in Italy.