Arnoldo Rodriguez

Computer Engineering
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PROJECTS

Resistor Scanner · Android app fully written in Kotlin that scans resistor bands using the phone camera and determines the value in Ohms. This was achieved without the use of any computer vision libraries. See on Google Play: play.google.com/store/apps/details?id=noldyLabs.resistorscanner

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

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