

# Adrian Pino

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## Education

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**Florida Atlantic University**, Boca Raton, FL

Master's of Science in Computer Science, **2020**

Bachelor's of Science in Electrical Engineering, **2011**

## Experience

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**Control Systems Software Engineer**

December 2009 – Present

Belcan Engineering, West Palm Beach, FL

- Manage and provide technical guidance for the software development of 3 PW800 engine variants.
- Oversee project status and budget, interviewing and onboarding, performance evaluations.
- Lead scrum meetings and design reviews to maintain organization and identify/prevent any unwanted downstream behavior.
- Identify work-overlap and bottlenecks for process optimization.
- Maintain object-oriented software environment using Matlab/Simulink utilizing control flow and/or state-machine design schemes.
- Coordinate software and requirements development ensuring compliance to DO-178B aerospace industry standards and meeting the intent of the system requirements.
- Review software integration issues reported from verification campaigns and action discrepancies appropriately - flowing down best practices to avoid repeated mistakes.
- Worked on creating the architecture for Time Limited Dispatch functionality.
- Lead the development for Power-On Test and Shutdown sequences.
- Identified process improvements and cost saving measures by introducing mistake-proofing in the process via a software tool ensuring deliverable integrity.
- Experience in:
  - Designing Closed-Loop Control System software.
  - Supporting SOI certification meetings.
  - Running static and dynamic bench model simulations.
  - Developing test cases to test for full requirement coverage.
  - Interpreting test plots to identify root causes for software defects.
  - Writing detailed technical reports conveying issues clearly and effectively.
  - Customizing and enhancing software tool sets and library parts utilized program wide.
  - Software configuration management/change control process.
  - Writing software requirements and creating traces to establish requirement coverage.
  - Securely transmitting sensitive and/or technical information subject to export control.

## Personal Projects

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Google AIY Smart Home Speaker project for the elderly/technologically disadvantaged.

- Directly connected to a specific loved-one
- Transmits voice-recording to the loved-one via a Telegram Bot
- The AIY speaker will read out-loud the text messages sent from loved-one

Pool Monitor that floats around the pool.

- Integrated accelerometer, photosensor, potentiometer and Bluetooth using TI's MSP430
- MSP430 reads and transmits sensor data
- Raspberry Pi receives sensor data and runs monitoring algorithm
- Raspberry Pi sends alert message when it detects an event (i.e. child falling in)

Remote Garage Door Opener

- Set up Raspberry Pi with a relay connected to garage door button

- Send ssh command to Raspberry Pi to trigger relay

## Proficiencies

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- Matlab/Simulink
- Microsoft Windows
- Microsoft Office
- Micro-controllers
- C++
- Mac/OSx
- TortoiseSVN
- Raspberry Pi
- Python
- Java
- Linux
- Github
- Arduino
- bash
- Unix
- Bit Bucket
- I2C
- SQL
- Cygwin
- CAN