



MANUEL ALEJANDRO AMARO II

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EDUCATION

Northern Illinois University

B.S. in Electrical/Computer Engineering
May 2017

ORGANIZATIONS & CLUBS

- The Society of Hispanic Professional Engineers
- Institute of Electrical and Electronics Engineers
- NIU Robotics Club
- NIU SAE Formula Team

COMPUTER SKILLS

| | |
|--------------------------------|--------|
| Robotics | ●●●●●● |
| C | ●●●●●● |
| C++ | ●●●●●● |
| FPGA / Verilog / VHDL | ●●●●●● |
| Python | ●●●●●● |
| Ruby | ●●●●●● |
| Eagle Cad | ●●●●●● |
| Front End Software Engineering | ●●●●●● |
| IOS/Android App Design | ●●●●●● |
| MySQL | ●●●●●● |
| Simulink / Matlab | ●●●●●● |
| Embedded Software | ●●●●●● |
| Engineering Assembly | ●●●●●● |
| Pspice | ●●●●●● |
| Solidworks | ●●●●●● |
| Electrical Test Equipment | ●●●●●● |
| Unix | ●●●●●● |
| Linux, OSX, Windows | ●●●●●● |

EXPERIENCE

Intern, Rehabilitation Institute of Chicago

Chicago , IL August 2013, August 2014

- Use Data Acquisition and analysis tools
- Perform thorough device testing for operation and failure modes and generate test reports to improve overall product design
- Assist with development, data collection, analysis and implementation relative to research and quality improvement activities
- Programming (testing) using C++, C, Python, Matlab

Research Assistant, Northern Illinois University

DeKalb, IL January 2016 - present

- Work on building remote reconfigurable logic laboratory for digital design students
- Build and maint web site that is used to enable remote access to FPGA (Field Programmable Gate Array) development and educational board
- Build and maintain server (linux based) used for communication between the website and FPGA
- Create FPGA designs using Xilinx FPGA tools to test the limitations of existing hardware
- Create designs using Verilog.
- Help design labs for future sections of ELE430
- Robotic Vision using FPGA Technology
- program a robot to recognize at least ten objects or faces by various attributes
- program a robot to move toward object and call object by name or other phrases