

# Spencer Finck

## Firmware Engineer

San Antonio, TX

-Email me on Indeed: <http://www.indeed.com/r/Spencer-Finck/e2f2d9b6f5030772>

To obtain a position that allows me to learn while applying my skill set. My drive is to hone my skills while helping both the organization and myself grow successfully.

### ADEPT KNOWLEDGE

Programming: • C • C++ • Python • Flowcharting

Electronic Design: • PIC Firmware • Allegro PCB • Schematic Entry

• OrCad • PCB Debugging • Surface-Mount Soldering

Authorized to work in the US for any employer

## Work Experience

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### Firmware Engineer

Fortitude Systems - Sterling, VA

February 2019 to Present

- Research, development, and testing for the quectel EG25 cellular modem
- Developed a power saving firmware satellite modem controller
- Authored and published internal standard operating procedures
- Analyzed a major GPS error and developed a firmware fix
- Wrote a serial flash application to manage embedded system's memory

### Embedded Systems Engineer

PSP Products Inc - Manassas, VA

November 2018 to February 2019

- Assembled, tested and repaired of PCBs
- Designed and debugged new PCBs for products
- Wrote G Code and CNC machine operation

### Freelance Embedded Prototyping

Self employed - Fort Lauderdale, FL

July 2018 to October 2018

Contracted to design custom embedded projects

MSP430 and PIC16F series microcontrollers

- Block Diagrams, Prototyping, Schematics, PCB design
- Custom IoT RGB-LED Controllers

### Associate Engineer

Xtreme Electronic Designs Inc

May 2017 to May 2018

- PCB Layout with Allegro, Schematic Entry using OrCad
- Developed embedded firmware and assisted with PCB layout for electronic devices

Types of projects: Medical, Industrial, Aerospace, IoT

- Managed BoMs for new designs, updating obsolete parts, finding optimal parts
- Electronic Design/Debug: digital and analog design, component repair and debug
- Helped Manage the internal project workflow and Handled customer relations.

## **Lab Technician**

Department of Computer and Electrical Engineering and Computer Science - Boca Raton, FL  
November 2015 to May 2017

Atlantic University

- Assisted students, staff, and professors with projects
- Electronic Assembly, Soldering and Project Repair
- Tutoring and Debugging Assistance for fellow students in:

## **Field Service Technician (I.T.)**

Logic Design, Microprocessing  
August 2012 to February 2017

H and R Block -Miami to Jupiter

- Ticket based workflow, oversaw around 40 offices
- Maintenance of Printers, Routers, Modems, and Servers
- Installing and Configuring Computers

## **Student research assistant**

Summer Undergraduate Research Fellowship  
May 2016 to October 2016

Tecore Networks Lab, Florida Atlantic University -Boca Raton

- Vehicular Multi-technology Communication Device -IEEE 1609
- Embedded Linux development for kernel communication

## Education

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### **Bachelor of General Studies in CE/CS**

Florida Atlantic University  
2017

### **Associate of Arts degree**

Broward College  
2012

## Skills

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- Linux
- Soldering
- Javascript
- Java
- Css
- Uml

- Microscope
- Microscope soldering
- Drafting
- C
- Microcontroller
- Microcontrollers
- Uart
- Embedded
- C++

## Additional Information

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- C# • CSS • Java • JavaScript • Linux • Altium
- UML • Microscope Soldering • Proteus 8 • Traditional Drafting