

Rafi Sawaf

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EDUCATION

University of South Florida, Tampa, FL
Bachelor of Science in Electrical Engineering, December 2009
Electrical Engineering GPA 3.4

RELEVANT EXPERIENCE

Raytheon, Integrated Defense Systems, Tewksbury, MA 5/2010-Present
Electrical Engineer I- Hardware Test Development
Test Development Department, Electrical Design Directorate

- Design and build various (RF and Digital) Hardware adapters and cables to test Circuit Card Assemblies
- Created and presented hardware design at Preliminary Design Review and Critical Design Review
- Interfaced with subcontractors for hardware manufacturing and delivery
- Troubleshoot various test fixture hardware issues under strict deadlines
- Created, modified, and maintained engineering documentation
 - Utilizing Raytheon configuration management system
 - Change Notices, Initial release, Parts Creation
- Created mechanical drawings to aid circuit card test development and subcontractor manufacturing
- Lead PMCB reviews to show minimal risk in procuring parts from unapproved suppliers
- Delegated tasks to junior engineers
- Six Sigma Project to verify adapter maintainability, and sustainability in factory environment
- Raytheon Training- Introduction to Radar
- Lead Lab Audit Preparation
- Analyze and recommend changes to improve testability of power system cabinet
- Interfaced with lead power design engineers to improve design for testability purposes

Vehicle Refurbishing, Tampa, Florida 1/2008- 12/2009

Independently ran car refurbishing operation

- Solely purchased, and sold older vehicles locally and over the Internet
- Fixed, refurbished, painted, and reupholstered vehicles by utilizing large array of equipment and tools
- Increased mechanical and logical ability
- Supplied extra income during college

RELEVANT COURSEWORK

Senior Design Project: Radio Control Aircraft for surveying and surveillance 8/2009-12/2009

- Integrate wireless transmitter and receiver for camera and GPS unit
- Redesign Aircraft hull and fuselage for equipment accommodation, and flight balance
- Four-person group consisting of electrical engineering students
- In charge of GPS and Camera integrating, interfacing, and mounting

Upper Level Course-work: Project Management, Control Theory, Communication Systems, Wireless Systems, Power Electronics, Linear systems analysis, Network Analysis, Sustainable energy

Technical Labs: Circuits I/II, Logic, Microprocessors, Control theory, Wireless and Microwave Information systems

TECHNICAL COMPETENCIES

Software: Pspice, Matlab, LabView, Google Sketch up, AutoCAD, Simulink, Cadence, PTC Windchill, Microsoft Office Suite

Devices: Network Analyzer, Spectrum Analyzer, Oscilloscope, Digital Multi Meter, Function Generator

Engineering: Ability to work cohesively in a team environment, project management skills, mechanically inclined

Language: Fluent in Arabic

MEMBERSHIPS, CERTIFICATIONS, SECURITY CLEARANCE

- Department of Defense Security Clearance Current
- University of South Florida, IEEE member 2007-Present
- Occupation Safety and Health Administration(OSHA) Certified 5/2009