Pedram Charepoo, EIT

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Education: Georgia Institute of Technology, Atlanta, GA
- Bachelor of Science: Electrical Engineering
- Concentration: Power systems and Electromagnetics
- GPA: 3.35
- Honors: Eta Kappa Nu, Gamma Beta Phi, Delta Epsilon Iota
- Scholarships: John Staton Sr Endowed Fund, IEEE Scholarship for Power Engineers

Projects:
- Programmed a pulse width modulator an Altera DE-2 board using a Cyclone II FPGA allowing for 1024 bits of resolution for speed control of a motor.
- Designed a website an coded a PHP module as part of my senior design project that allows for a doctor to log in and submit prescriptions for patients directly to the assisted living center they belong to in order to cut down on the time it takes for prescriptions to be filled and get to the residents.
- Designed an operational amplifier to provide a specified gain using current mirrors, differential amplifiers and simple BJT's and MOSFETS.
- Have had several projects designing signal filters.
- Have experience designing transmission networks and impedance matching using both stub matching and lumped element methods to minimize signal reflection.

Skills: Software: MATLAB, AutoCAD, Quartus II, Multisim, VLAB, PowerWorld
Programming: C, VHDL
Creativity Suites: Microsoft Office, Adobe Creativity Suite
Web Design: HTML, XML, PHP, Joomla CMS
Foreign Languages: German, Farsi(Persian)
Communication: Technical Reports, Proposals, Oral Presentations to large groups.

Instrumentation:
- Spectrum analyzers for measuring wireless signal strength
- Experience using oscilloscopes, multi-meters, and function generators to troubleshoot prototype circuits.
- Experienced with using a solder iron.
- Have experience building and troubleshooting Doppler direction finders.
- Experience building radar detectors that operate at the 4.9GHz WiMax band.

Interests: Electromagnetics, wireless transmission, transmission theory, RF engineering, power systems analysis and engineering, dynamic control of feedback systems, electric energy conversion, motors, team leading, group projects, operations management, design projects, technical research, and product development.

Experience: Wright Industries (August 2011- Present)
- Position: Electrical Engineering Intern
- Responsibilities: Design, test, and troubleshoot, direction finding equipment operating on several different bands (UHF, WiMax, VHF)
- Used spectrum analyzer to measure wireless signal strengths at different frequencies.

AutoCheck Plus (May 2009 - August 2009)
- Position: Mechanic and Emissions Inspector
- Responsibilities: Perform routine and emergency repairs on customer vehicles as well as emission inspections.
- Used a variety of testing and troubleshooting tools and equipment to determine cause of problems in customer vehicle.

Airflotek Inc. (May 2005 - August 2009)
- Position: Shipping/Receiving Clerk and Cleanroom Technician
- Responsibilities: (Clerk) Receive orders and prepare wholesale HEPA filter orders for shipment to customers, installing necessary HEPEX bags. (Technician) Assemble, wire, and troubleshoot Fan/Filter Cleanroom units.

Activities & Leadership:

Gentiva Assisted Living Community Service Program:
- Served as a visitor to the assisted living centers/homes and spent time with the residents, majority of which were Alzheimer's patients.

Junior Youth Enrichment Program:
- Served as a mentor and tutor to junior youth (middle school aged) in Gwinnett County