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Human Resources
Lockheed Martin Commercial Space Systems
Newtown, PA 18940

Dear Lockheed Martin Human Resources:

Your job posting on LockheedMartinjobs.com for an Electronics Engineer Associate with knowledge of RF and microwave design greatly interests me. With my hardware analysis skills, proven communication abilities, and experience with RF communications design, I can excel as your Electronics Engineer Associate and serve Lockheed-Martin well.

I have worked in hardware design and testing in my classes and applied this to real-world development in my undergraduate research. I simulated circuits with Spice, NI Multisim, and in VHDL with Quartus II then tested the circuits with bench equipment. I have worked with passive, analog, and digital circuits, but my interests in wireless communications led me to electromagnetics and RF design. Projects included the analysis of different types of RADAR, design and simulation of a high frequency voltage-controlled oscillator using ADS, calculation of signal statistics and characteristics, and using MATLAB to perform DSP functions and analysis. As a senior design project, I built a RADAR receiver to detect space-based objects. This involved circuit analysis and modification of commercial, off-the-shelf products to meet the needs of the receiver. I tested the functionality of the receiver using a high frequency signal generator and spectrum analyzer. To further my exposure to RF design, I enrolled in the undergraduate research program. This research centered around RF design and communications using RFID and wireless sensors. I worked in a real-world situation for a client to model and test circuits to their specifications. While doing this, I developed my skills in computer modeling of hardware given constraints from the client. I used the simulations of circuits and antennas to construct and test a prototype, giving me experience with experimental results versus expectations from a model.

I developed my communication skills working as a teacher for an after-school robotics class for students in grades 2-5. There, I strengthened my ability to communicate effectively with others by teaching engineering skills. I worked independently to develop a curriculum to showcase different skills and give students the opportunity for hands-on experience in building of robots with LEGO Mindstorms robotics kits. I also served as coach for the school's robotics team, managing the development of a new competition robot each year and coordinating with parents, teachers, and students. The competition changed yearly, so a new set of goals and implementations were needed. I led discussions with the team to brainstorm ideas and facilitate them in completion of their designs. In competitions, our team went through several rounds and reached state level competition each year. We consistently won awards for teamwork and technical proficiency. My experiences have nurtured a balance of strong communications experience and advanced technical skills with an interest in wireless technologies.

After you review my resume for additional information on my qualifications and work experience, I will be happy to answer any questions you may have. Please contact me to discuss how my experience with RF design, hardware analysis skills, and proven communication abilities can help as an Electrical Engineer Associate at Lockheed-Martin. I look forward to hearing from you.

Sincerely,
Scott Travis