



Example of RF Design Engineer Job Description

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Our company is growing rapidly and is looking for a RF design engineer. Please review the list of responsibilities and qualifications. While this is our ideal list, we will consider candidates that do not necessarily have all of the qualifications, but have sufficient experience and talent.

Responsibilities for RF design engineer

- Developing requirements for and designs of missile terminal homing RF seekers
- Active and passive seeker design including antenna, transmit and receive subsystems
- Develop and use tools to model existing missile RF seekers and examine potential designs
- Develop and implement RF detection processing
- Develop and implement Automatic gain control algorithms
- Develop and implement Track loop processing algorithms
- Develop and implement Target identification/discrimination algorithms
- Develop and implement Electronic countermeasure protection
- Develop and implement Gimbal-server control loop algorithms
- Analyze, Design, and Implement Waveforms and associated signal processing design

Qualifications for RF design engineer

- Masters or PhD • Experience/knowledge of mechanical CAD tools • Experience with RF measurements or testing • Experience with antenna design or antenna vendors • Experience at working with external suppliers and contract manufacturers • Experience with portable consumer electronic devices

- Strong knowledge of loop design to optimize for phase noise/jitter, lock time, reference spur, area, power
- Understanding of device physics and demonstrated ability to apply that to optimize noise, power, area, frequency of PLL blocks
- Knowledge of bandgaps, bias, opamps, LDOs, feedback, and compensation techniques