INDIANA MICROELECTRONICS, LLC

RF Engineering Position

Job Title: **Radio Frequency (RF) Engineer**

Location: West Lafayette, IN

Position: Full-Time (US citizen)

About the Role:

Indiana Microelectronics, LLC (www.IndianaMicro.com) is seeking an innovative and skilled **Radio Frequency (RF) Engineer** to join our engineering team. In this role, you will be responsible for designing, testing, and optimizing cutting-edge tunable radio frequency filters and radio frequency front-end (RFFE) systems for interference mitigation. If you have a deep passion for electromagnetic theory, circuit design, and pushing the boundaries of wireless technology, we want to hear from you.

Key Responsibilities:

- **Design & Development:** Design, simulate, and prototype RF circuits and components (filters, amplifiers, mixers).
- **Testing & Validation:** Conduct rigorous lab testing and evaluation using RF test equipment (spectrum analyzers, network analyzers, signal generators).
- **Performance Optimization:** Analyze parameters such as gain, noise figure, VSWR, linearity, and phase noise to ensure peak hardware performance.
- **Project Implementation:** Work closely with systems engineers, firmware developers, project managers, and customers from early-stage architecture to production.

Qualifications & Skills:

- **Education:** Bachelor's or Master's Degree in Electrical Engineering, Computer Engineering, Electrical Engineering Technology, or a related field.
- **Experience:** Hands-on experience in RF engineering, hardware design, or wireless communications.
- **Software Proficiency:** Experience with RF simulation and design tools such as **ANSYS HFSS, Keysight ADS, Microwave Office, and Altium**. Familiarity with scripting languages (Python or MATLAB/Simulink) for automated testing and data analysis.
- **Hardware & Lab Knowledge:** Proficient in operating spectrum analyzers, network analyzers, probe stations, and oscilloscopes.
- **Core Competencies:** Solid understanding of transmission line theory, electromagnetic fields, and RF & microwave circuit design.

To apply: Send resume & cover email/letter to: cuppys@indianamicro.com

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