Analog Hardware Design Engineer (Immediate)

SiLC Technologies Inc. (https://www.silc.com/) is looking for an analog hardware design engineer to be a part of a dynamic and experienced team focused on building a revolutionary 4D sensing solution employing a cutting-edge integrated silicon photonic FMCW LiDAR technology. This person will lead analog & digital PCB designs, and work with the systems team to identify, test, and validate design requirements. This for an immediate requirement which could be an internship or a full-time position. We prefer someone who can start at the earliest.

Requirements

- MS in Electrical Engineering
- Proficient with analog design such as high-speed RF (> 1 GHz), ADC / DAC, power supplies, and low-noise layout techniques
- Experience with signal integrity, power integrity, EMI and ESD
- Experience with the board level design cycle: schematic capture, layout design, component selections and board bring up
- Knowledge and experience of board-level and module-level shielding and grounding
- Experience with design capture tools (OrCAD, PADS and SPICE or equivalent tools)
- Comfortable with using lab equipment to verify board functionality including oscilloscopes, spectrum analyzers, vector network analyzers, logic analyzers, multimeters, function generators, and power supplies
- Good soldering skills and ability to rework circuits

Primary responsibilities

- Work with systems team to specify, architect & design PCBs required for the system
- Responsible for schematic capture and layout of high-speed analog & digital PCBs
- Work with PCB vendor for fabrication and assembly
- Bring-up, debug, test, & validate designs

Nice to have

- Experience with end-to-end product development in consumer, industrial or automotive
- Familiarity with design for testability and manufacturability principles
- Experience in switch-mode and linear power supply design and PCB layout, thermal design and analysis

Interested candidates please send resume with a cover letter to Dr. Cejo Konuparamban Lonappan at: cejo@silc.com