Background

Kron Technologies is a fun, ambitious, and quickly growing startup that's disrupting the world of high-speed cameras. We're looking for talented individuals to join us having a blast while designing and manufacturing world-leading products. Our employees enjoy flexibility, freedom, and a fun, supportive environment. We're located just west of Production Way, a short walk north from Production Way/University Skytrain station, and a 5-minute drive from Highway 1.

About the position

Kron Tech is seeking an awesome, highly motivated person who lives and breathes FPGAs, Verilog, and logic to join us as a Senior FPGA Engineer. You'll be working on cutting-edge high-speed imaging equipment, designing and architecting image processing systems, implementing new features in the camera's FPGA, as well as maintaining and updating existing logic cores. Experience in advanced hardware design and PCB layout would be a huge asset. As we are a small company, this role will have broad responsibilities, which will include:

- Evaluating FPGA requirements for new products
- Researching design requirements, producing system and IP core design specifications
- Designing FPGA-targeted IP cores in Verilog
- Creating, using and maintaining simulation testbenches for system and IP core validation
- Evaluating timing requirements and implementing logic to meet timing
- Assisting with pin planning during board design and layout
- Performing system bring-up tasks

Required qualifications

- Master's degree in Electrical or Computer engineering (or equivalent experience)
- Excellent organizational, written and verbal communication skills
- Mastery of clock domain crossing
- Simulation experience in Modelsim, etc.
- Familiarity with the design and implementation of high-speed protocols/interfaces
- Familiarity with source control systems
- Excellent hardware and software troubleshooting skills

Desired qualifications

- Experience with Intel Cyclone or Xilinx FPGAs
- Knowledge of cameras, image processing pipelines, and/or compression algorithms
- Familiarity with automated design verification using TCL scripts, Synopsis Design Constraints, etc.
- Expert in RTL simulation

Perks, Compensation and Benefits

As a full-time employee, you'll receive a salary commensurate with your experience. We offer comprehensive benefits including extended health, dental, and travel medical insurance, professional development allowance, and the ability to work from home one day per week. In addition, we have a complete electronics lab and machine shop, which you're welcome to use in off-hours for personal projects.

To apply, send your **resume** and a showcase of your awesome past work or personal projects (as a PDF or personal website) to jobs@krontech.ca.