



Background

Kron Technologies is an emerging technology company that has grown from its Kickstarter origins to develop innovative cameras that have disrupted the world of high-speed video cameras. We're looking for more talented individuals to join us as we design, develop, and manufacture cutting-edge imaging products. Our employees enjoy flexibility, freedom, great colleagues, a positive work/life balance, and stimulating technical challenges to solve.

We're located a short walk from the Production Way/University Skytrain station, and a 5-minute drive from the Highway 1, Gaglardi Way Exit.

The Opportunity

This full-time position is an opportunity to work in a technology company that is reshaping the world of high-speed cameras. You will be working with a creative, diverse, multi-disciplinary team to develop the technical platform for the next generation of high-speed imaging equipment. You will be able to use your skills and passion for FPGAs, Verilog, and logic to contribute to a physical product.. Some of the tasks you will be working on include designing and architecting image processing systems, implementing features in the camera's FPGA, and performing design verification.

This role is central to our development efforts and will have broad responsibilities, including:

- 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
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Required qualifications

- University degree in Electrical or Computer Engineering (or equivalent experience)
- Clear, robust, and well commented coding style
- Excellent verbal and written communication skills
- 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
- Team player able to work well and contribute effectively with different groups

Desired qualifications

- 3+ years of experience developing custom IP for production FPGAs and/or ASICs
- Solid experience with Intel Cyclone or Xilinx FPGAs and tools
- Knowledge of cameras, image processing pipelines, and/or compression algorithms
- Familiarity with automated design verification using TCL scripts, Synopsys Design Constraints, etc.
- Expert in RTL simulation
- Passion for technology innovation
- Experience in advanced hardware design and PCB layout would be a huge asset.

Perks, Compensation and Benefits

As a full-time employee, you'll receive a salary commensurate with your capabilities and experience. We offer a comprehensive benefits package including extended health, dental, and travel medical insurance, Healthcare and Lifestyle Spending accounts, positive work/life balance, and a professional development allowance, and an annual performance bonus.

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 **cover letter** indicating why you are an excellent fit for the role to jobs@krontech.ca. We look forward to hearing from you!