Achal Patel

438-979-5673 | Achalypatel3403@gmail.com | linkedin.com/achal-patel | github.com/ac-pate

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Dear Recruiting Team,
Tower Research Capital

Subject: Application for Software Developer Intern (Summer 2026)

High-performance engineering requires bridging abstract algorithms with bare-metal reality. At CUARL (Concordia University Aerospace Robotics Lab), I work on research problems where software must be reliable, fast, and practical under real constraints—building end-to-end systems that integrate control logic, real-time data pipelines, and deployed AI models. This experience has shaped how I approach performance optimization, system-level design, and debugging. Combined with my hardware validation background at Microchip Technology, I understand both the physical layer constraints and the algorithmic demands of modern computing. I am applying to Tower Research Capital because your engineering challenges align with my drive to build solutions that are efficient, robust, and impactful.

My skillset spans the full stack. I move seamlessly from low-level C++ drivers and FPGA accelerated inference to designing custom deep learning architectures—proven when I won Canadian Engineering Competition, against the best engineering students form all over the country and when I won a Kaggle RNA Folding class competition against Masters/PhD student with a custom Transformer model. Whether optimizing real-time systems, building parallel processing pipelines, or developing production ML models, I bring an R&D mindset trained to solve undefined problems and deliver working solutions. I am ready to apply this versatile engineering approach to the challenges at Tower Research Capital

I thrive in environment where performance, intelligence, and and relentless problem-solving define success. I am ready to contribute immediately and grow alongside some of the best engineers in the industry.

Sincerely,

Achal Patel