

Job Posting:172062 - Position: F25 Software Engineering Intern 172062B

Co-op Work Term Posted:	2025 - Fall
App Deadline	08/28/2025 09:00 AM
Application Method:	Through Employer Website
Posting Goes Live:	08/21/2025 01:06 PM
Job Posting Status:	Approved

ORGANIZATION INFORMATION

Organization	Mercedes and Singh, Innovative Ventures (MASIV)
Address Line 1	2169, 41 Avenue NE
City	Calgary
Postal Code / Zip Code	T2E 6P2
Province / State	AB
Country	Canada

JOB POSTING INFORMATION

Placement Term	2025 - Fall
 Job Title 	F25 Software Engineering Intern 172062B
Position Type	Co-op Position
Job Location	Calgary, AB
Country	Canada
Duration	8 or 12 months
Work Mode	In-Person
Salary Currency	CAD
Salary	23.5 per hour for 0 Major List
Job Description	

MASIV (est. 2016) is an Architectural Design, Fabrication, and Build company that fuses design, technology, and construction to innovate multi-scale products and environments. The fusion of disciplines within our work opens previously impossible opportunities within each domain, allowing design to inspire AEC and AEC to inspire design.

At MASIV, we question dominant modes of design that have divorced us from the concept of the Master Builder by prioritizing humanity above all else.

We propose a Human-centric approach that delivers design solutions with a Sustainable lens. In this pursuit, we reject all forms of segregation and instead call for a radical synergy between disciplines.

Summary

MASIV is seeking a motivated and enthusiastic Software Engineering Intern for 8-12 months to join our innovative team. As part of our dynamic environment, you'll collaborate with computational architects, engineers, and fabricators, to design, develop, and implement software solutions across various AEC (architecture, engineering, construction) projects and initiatives.

Under the mentorship of the CEO and COO, you'll have the opportunity to contribute to the full software development lifecycle, from requirements gathering and design to testing and deployment. Your role will involve coding, debugging, and maintaining software applications, ensuring they meet quality standards and user requirements.

Based at our headquarters in Calgary, AB, this position offers a platform for you to enhance your technical skills, explore new technologies, and gain practical experience in software development to the growing field of construction technology.

You'll have the opportunity to learn and grow in a supportive environment, making meaningful contributions to our team's success. At MASIV, you'll be part of a collaborative culture that fosters innovation and creativity, as you embark on a rewarding journey in the field of construction technology.

Role Definition

Company: Mercedes and Singh Innovative Ventures

Job Title: Software Engineer Intern

Reporting to: CEO on a day-to-day basis and to the Shop and Site Supervisors for project work

Location: In-Person only at our office in Calgary, AB. Preference will be given to candidates with own vehicle

Pay range: Starting at \$23.5/hour, and regular pay raises provided commensurate with performance

Take Home Test: There will be a take home test with a 24 hour time limit. Your own skills + vibe coding is encouraged.

Responsibilities

- Build browser-based tools (React/Three.js/WebGL) and phone apps (React Native)
- Write C# for Unity-based AR/VR tools
- Train and manage datasets for ML applications in AEC
- Implement real-time BIM, simulation, and fabrication pipelines
- Work independently with minimal supervision and iterate fast
- Strong fundamental skills in Javascript, Python, HTML/CSS
- Developing front end website architecture and user interactions, while also managing back end
- Solve complex problems and debug software applications efficiently and with minimal supervision
- Implement computational design concepts to generate 3D models, fabrication data, and other design outputs
- Communicate ideas, work, and progress clearly, including by engaging in team meetings, presentations, and other creative communication outlets
- To take responsibility where required by the project leaders for specific areas of the design, fabrication and project development
- To give support where needed to colleagues working on other projects
- Thorough knowledge of and compliance with MASIV company culture, procedures and standards
- To contribute, or otherwise assist as required
- Stay abreast of the latest developments in BIM and AI technologies

EXPECTATIONS: WHAT YOU ARE SIGNING UP FOR

This is not a traditional internship, it's an invitation to solve real problems in an environment that values rigor, resilience, and self-leadership.

- Operate independently with minimal supervision. Take initiative, don't wait for instruction.
- Learn by doing. Applied research, real-world problem solving, and quick iteration are part of daily life here.
- Embrace the uphill climb. If you choose the Everest route over a leisurely hike, you'll thrive here. **Expect to be challenged.**
- Stretch beyond your comfort zone. You'll encounter tools, frameworks, and problems you've never seen before - and you'll be expected to figure them out.
- Be resourceful. Leverage every tool at your disposal - documentation, forums, LLMs, community threads - to find answers and move forward.
- Deadlines are real. Delivering under pressure is part of how we grow and how we serve.

- Integrity is non-negotiable. Say what you do. Do what you say. Own your commitments with honesty and accountability.
- This environment isn't for everyone. But if you're here to stretch your limits and contribute to something bigger, we'll invest in you every step of the way.

Desirable

The above description reflects the core activities of the role but is not intended to be all-inclusive and other duties within the group/department may be required in addition to changes in the emphasis of duties as required from time to time. There is a requirement for the post holder to recognize this and adopt a flexible approach to work. Job descriptions will be reviewed regularly and where necessary revised in accordance with organizational needs. Any major changes will be discussed with the post holder.

MASIV does not discriminate on the basis of race, color, religion, sex, national origin, age, disability, genetic information, or any other legally protected characteristics.

Salary is based on a number of factors including job-related knowledge, skills, experience, and other business and organizational needs. Our compensation package also includes variable compensation in the form of year-end bonuses, and benefits..

We Put Safety First

A healthy and safe work environment is non-negotiable. We build a culture of operational and psychological safety through engagement, learning and leadership.

We Lead With Honesty

We speak and act with integrity, clarity and care so people can trust our word and our work. Being honest means we can deliver the best outcomes and consistent results.

We Are Stronger Together

Success is a team effort. Our inclusive workplace enables our combined expertise, humility and creativity to unlock our greater potential.

We Are Driven To Do Great Work

We built our name on quality. We have a passion for excellence in our work and relationships that honours our businesses and our industry.

We Create Opportunity

Rooted in a solid foundation, we adapt and grow to face the future. We are committed to elevating each other to chart the best path forward in an evolving world.

Job Requirements

Qualities and skills required

- 1-3 years of computer science, software engineering, or full stack development
- Bachelor of Computer Science, Software Engineering, Electrical Engineering, Digital Engineering
- Portfolio demonstrating out-of-the-box thinking and stellar taste in UI/UX design
- Experience in Grasshopper or Visual Scripting tools specific to AEC would be a plus
- Proficiency in real-time tools such as Touch Designer, Unreal Engine, or Unity would be a plus
- Research experience in computer graphics, computational geometry, computational fabrication, computational intelligence, computational dynamics, or related fields, would be a plus
- Familiarity with BIM software applications such as RevitAPI, Rhino.Compute, etc. would be a plus
- Experience with WASM would be an asset

- Strong commitment to the team; maintains positive working relationships with diverse people, including internal team and external partners
- Embodies ethics and integrity in all work, respecting both company and broader community policies
- Resilient to coping with conflicting demands
- Able to work under pressure and to tight deadlines, with a do-what-it-takes mentality
- Excellent organizational skills
- Able to manage sensitive and confidential information
- Self-motivated and able to take responsibility
- Able to manage and prioritize tasks and time efficiently
- Able to demonstrate initiative and a proactive approach to daily tasks
- Good interpersonal skills and able to work independently and as part of an effective team
- Flexible attitude

Citizenship Requirement Canadian & Permanent Residents Only

APPLICATION INFORMATION

Application Procedure Through Employer Website

Special Application Instructions

Application Link: <https://www.linkedin.com/jobs/view/4286177800/>

Please click the "I intend to apply to this position" button on SCOPE and also submit your application via the employer's website.

Applications are accepted on a rolling basis and the posting may be expired at any time by the employer as submissions are received.

Students should submit their applications as soon as they are ready.