JOASH ELDHO

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PROFESSIONAL SUMMARY

Second-year Geomatics Engineering student with experience in GIS, autonomous mapping, computer vision, and technical team leadership. Contribute to indoor 3D reconstruction with Tech Start Axial and rover mapping with Schulich ROAM. Seeking a Summer 2027 internship in geomatics, GIS, surveying, or geospatial technology.

EDUCATION

University of Calgary | BSc, Geomatics Engineering *Expected Apr 2029*

GPA: 3.7/4.0 | **Dean's List:** 2025-2026 | **Schulich Leader Nominee:** Bishop McNally, 2025

TECHNICAL SKILLS

Geospatial: ArcGIS Pro, GIS, spatial data analysis, LiDAR, RTK-GNSS, IMU, photogrammetry, point-cloud processing, SLAM and sensor integration

Programming & tools: Python, C++, NumPy, Matplotlib, Microsoft Excel, technical prototyping and testing

TECHNICAL EXPERIENCE

CV/ML Engineer | Tech Start UCalgary - Axial *Oct 2026 - Present*

- Work on computer vision and 3D reconstruction for indoor mapping and navigation as part of a student development team.

Geomatics Team Member | Schulich ROAM *Sep 2026 - Present*

- Contribute to an autonomous rover for terrain mapping, infrastructure inspection, and environmental monitoring using LiDAR, RTK-GNSS, IMU, and stereo vision.
- Support LiDAR-based SLAM, point-cloud processing, and 3D mapping workflows; collaborate across mechanical, electrical, and software teams on sensor integration.

Robotic Claw Subsystem Lead | AUV UCalgary *Oct 2025 - Sep 2026*

- Led robotic claw development for future RoboSub competitions, coordinating subteam tasks across mechanical, electrical, and control-system work.
- Presented design progress, technical decisions, and testing results during team reviews.

MiEX Fellow | Mining Industry Human Resources Council *May 2026*

- Completed a two-week mining program covering exploration, operations, sustainability, reclamation, and Indigenous engagement; visited Teck's Highland Valley Copper Mine.
- Collaborated on a business-case proposal to improve public perceptions of mining and attract future talent.

WORK EXPERIENCE

Cast Member | Cineplex Sunridge Spectrum Cinemas *Nov 2023 - Present*

- Deliver customer service in a fast-paced theatre, resolve guest concerns, and communicate effectively with supervisors and coworkers.

Landscaper | Soar Property Maintenance *Jun - Sep 2026*

- Completed outdoor site work involving measurements, grading, layout, and site preparation in changing conditions.

LEADERSHIP & COMMUNITY

Events Commissioner | GESS (Oct 2026 - Present): Coordinate student events, logistics, and engagement with the geomatics community.

Junior Events Executive | Malayalee Student Society: Support event planning, budgeting, and coordination.

Volunteer | Youth Central (Jul 2024 - Jul 2025): Supported STEM outreach, community events, and technology assistance for seniors.