

# Stefan de Las

[destefy](#) | [stefandelasa](#) | [stefan.delasa@gmail.com](mailto:stefan.delasa@gmail.com) | [647-920-8916](#)

Citizenship: Canadian & American | Born: December 3rd 2002

## EDUCATION

University of Toronto, MSc - Computer Engineering **2025 - Present**  
Co-supervised by Dr. Nandita Vijaykumar and Dr. Gennady Pekhimenko

University of Toronto, BSc - Computer Engineering **2020-2025**  
Graduated with High Honours. CGPA: 3.90/4.0 (Dean's Honour List) (4 years + Co-op year)

## WORK EXPERIENCE

**Software Dev. Intern**, *CentML (acquired by NVIDIA)*, Toronto, ON **Sep 2023 - Aug 2024**

CentML developed tools to make machine learning (ML) deployments more affordable and efficient.

- Sole contributor to ML model **remote compilation** project, optimizing model deployments.
- Enabled developer workflows with a local compilation server. See here: [link](#)
- Designed ML model compilation caching system, to reduce costs and improve user experience.
- Developed a method to consistently hash ML models, including **LLMs** and **CNNs**.

**Undergraduate Research Student**, *James Elder, York University*, Toronto, ON **May - Aug 2023**

The Elder Lab [link](#) is using **image semantics** to improve computer vision monocular **depth estimation**.

- Formulated methods to apply Elder's model to enhance existing ML depth estimation solutions.
- Demonstrated **~20%** accuracy improvement over previous depth estimation models.
- Awarded **Student Choice Best Presentation** at the Lassonde Undergraduate Research Conference.

**Software Engineer Intern**, *PointClickCare (PCC)*, Toronto, ON **May - Aug 2022**

PCC creates healthcare software to assist vulnerable populations with out-of-hospital care.

- Wrote front-end code to ease the editing of patient screening templates.
- Extracted user metrics for PCC's Pendo analytics and workflow improvements system.

**Data Management Intern**, *IESO*, Toronto, ON **Jun - Aug 2021**

The IESO gathers and monitors electrical data from industrial customers throughout Ontario.

- Spearheaded **machine learning** project for anomaly detection, using IESO's historical datasets.
- Performed in-depth review of Meter Service Provider data, for meter billing report correctness.

## EXTRA CURRICULARS

**Planning Team Member**, *aUtoronto, Self-Driving Car Team*, Toronto, ON **Sep 2023 - May 2024**

The aUtoronto planning team develops navigation algorithms for autonomous vehicles.

- Created method to find the fastest route to the nearest empty parking spot.
- Proposed and integrated a technique to reduce map density, improving planning performance **>20%**.

**Electrical Team Member**, *UTSM, Supermileage Team*, Toronto, ON **Nov 2021 - May 2022**

UTSM is a student team dedicated to designing and building a highly fuel-efficient vehicle.

- Designed car turning indicators and windshield wipers.

## AWARDS

Capstone Administrator's Choice Award (\$500 CAD) 2025

Capstone Certificate of Distinction 2025

Student Choice Best Presentation - Lassonde Undergraduate Research Conference 2023

Lassonde Undergraduate Research Award (LURA) (\$10,000 CAD) 2023

Dean's List Scholar - UofT 2020-2025

U of T Engineering Faculty Scholarship (\$2,000 CAD) 2020

## CONFERENCES

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**Lassonde Undergraduate Research Conference, York University, Toronto, ON** **Aug 2024**

- Oral Presentation: “Improving Deep Learning Depth Estimation Using Image Semantics and Geometry”.
- Recieved the **Student Choice Best Presentation** award.

## SELECTED PROJECTS

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**3D Gaussian Splatting for Snapdragon (Qualcomm) Hardware** **Sep 2024 - Apr 2025**

- Implemented 3D Gaussian Splatting renderer for devices powered by Snapdragon Adreno **GPUs**.
- Profiled renderer to identify key frame rate bottlenecks.
- Recieved **Capstone Administrator’s Choice Award** and **Capstone Certificate of Distinction**.

**Programmable Compass** **April 2023** [🔗](#)

- Used a GPS module to receive location data using USART communication and Direct Memory Access.
- Communicated via I2C with a magnetometer to determine my compass’ orientation.
- Used Pulse-Width-Modulation to display the direction and distance on on a LED ring.

**OS161 (Operating System)** **Jan 2023 - April 2023** [🔗](#)

- Implemented **memory management**, page reclamation, demand paging, and page swapping with disk.
- Created core system calls for user programs including waitpid, fork, and exec.
- Added key synchronization primitives such as locks and condition variables.

**Radio Transceiver** **Jan - Apr 2022** [🔗](#)

- Designed limiter, filter, mixer, and amplifier circuits for a radio receiver (Altium, Multisim).
- Demonstrated successful integration of our subcircuits into a functioning radio transceiver.
- Communicated design rationale to technical and non-technical audiences through presentations.

## SKILLS

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Programming: Python, PyTorch, C, C++, MATLAB, JavaScript, TypeScript, React, ARM Assembly  
Dev Tools: Git, VSCode, Docker, AWS, K8S, SQL, Jenkins  
Communication: LaTeX, Google Workspace, MS Office, Outlook

## LANGUAGES

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**English:** Native Proficiency

**French:** Native Proficiency

**Polish:** Beginner

## REFERENCES

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**Dr. Gennady Pekhimenko**, Assistant Professor of Computer Science at UofT, CEO of CentML.

Email: [gennady@centml.ai](mailto:gennady@centml.ai), Website: [🔗](#)

**Dr. Andreas Moshovos**, Professor of Computer Engineering at UofT

Email: [moshovos@ece.utoronto.edu](mailto:moshovos@ece.utoronto.edu), Website: [🔗](#)

**Dr. James Elder**, Professor of CS at York University, York Research Chair in Human and Computer Vision.

Email: [jelder@yorku.ca](mailto:jelder@yorku.ca), Website: [🔗](#)

**Anand Jayarajan**, Co-Founder and Chief Architect at CentML.

Email: [anandj@centml.ai](mailto:anandj@centml.ai), Website: [🔗](#)