

Louis L. W. D. Pahlavi

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EDUCATION

University of Toronto

September 2014–Present

- *Bachelor of Applied Science in Electrical and Computer Engineering*, expected completion May 2019
- Minor in Robotics and Mechatronics
- Latest term 92.1% average (ranked 4 out of 173), 3.86 cumulative GPA

INDUSTRY EXPERIENCE

Systems and Control Engineering Intern, Verity Studios AG

May 2017–August 2018

- Serviced entertainment drone show systems overseas and oversaw flight operations for several weeks.
- Worked on improving the onboard control algorithms of swarms of quadcopters implemented in C++.
- Evaluated and characterized flight performance and effectiveness of calibration routines using Python.

Radio Frequencies Engineer, Space Flight Laboratories

June 2015–September 2015

- Designed and simulated the early prototypes of a deployable antenna mounted on the NORSAT-2 maritime communications satellite (launched in 2017) in collaboration with the European Space Agency.

RESEARCH EXPERIENCE

Researcher, ETH Zürich Laboratory for Biosensors and Bioelectronics (LBB)

May 2016–August 2016

- Developed the control and processing software for a biosensor to measure the density of proteins in liquid.
- Created a Graphical User Interface using Qt to control the actuators and interface them with various sensors.

Researcher, University of Toronto Reconfigurable Antenna Laboratory

May 2015–June 2015

- Created a MATLAB simulation to model a satellite's orbit and predict antenna radiation intensity on the surface of the Earth. Worked on antenna synthesis to find an antenna array for a given desired coverage area.

PROJECTS AND TEACHING

Teaching Assistant, University of Toronto Faculty of Engineering

September 2016–December 2016

- Taught APS100 – 'Orientation to Engineering' to first year Electrical and Computer Engineering students.

Wireless Communications Lead, University of Toronto Aerospace Team

September 2014–June 2016

- Designed, built and tested the antenna and communication module PCB, on a student-built nano satellite.
- Presented our design at several Product Design Reviews (PDR) and the Critical Design Review (CDR).

SCHOLARSHIPS AND AWARDS

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|-----------------------------------------------------------------------------------------|--------------|
| • Faculty of Applied Science and Engineering Dean's Honours List | 2014–Present |
| • Gordon R. Slemon Scholarship – Awarded for engineering design and academic excellence | 2016 |
| • University of Toronto International Exchange Bursary | 2016 |
| • University of Toronto Center for International Exchange Award | 2016 |
| • Royal Canadian Air Cadet Glider and Power Pilot Scholarships | 2013, 2014 |

TECHNICAL SKILLS

- **Programming Languages:** Python, C/C++, MATLAB
- **Software and CAD:** Unix, Git, LaTeX, Tensorflow, Qt
- **Languages:** French (native), English (native), Italian (fluent), German (intermediate), Czech (basic)