

# David McPhee



david.mcphee3@gmail.com



[linkedin.com/in/dmcphe](https://www.linkedin.com/in/dmcphe)



<http://davidmcphee.ca>

## Experience



### Junior Systems Designer

Calian, Advanced Technologies

Feb 2022 - Present (1 month +)

- Continuation of role with expanded responsibilities
- System design and technical documentation
- International travel for site work



### Entry Level Systems Designer

Calian, Advanced Technologies

May 2021 - Jan 2022 (9 months)

- Technical member of Satellite Communication Team
- Capture and development of system requirements
- System design, analyses, integration, and test plans
- Allocate requirements and parameter budgets to units and subsystems



### Institute of Space and Atmospheric Studies Undergraduate Student Research Assistant

University of Saskatchewan

Sep 2020 - Apr 2021 (8 months)

- Continued research focused on analyzing the Quasi Biennial Oscillation (QBO) from temperature and wind anomalies in the tropical stratosphere



### Institute of Space and Atmospheric Studies Summer Student Research Assistant

University of Saskatchewan

May 2020 - Aug 2020 (4 months)

Research focused on analyzing the Quasi Biennial Oscillation (QBO) from temperature and wind anomalies in the tropical stratosphere .

- Co-author of paper on the topic of Zonal asymmetry of the QBO temperature signal in the tropical tropopause region <https://doi.org/10.1029/2020GL089533>
- Designed code to estimate the QBO amplitude and variability over the past half-century
- Refined and improved Matlab skills resulting high quality plots, figures and other data representations
- Opportunity to collaborate and learn from professors, graduate students, and scientists to refine research
- Dependable, honest, and respectful with regard to the sudden shift to work-from-home policies

## Education



## **University of Saskatchewan**

Bachelor of Engineering - BE, Engineering Physics

2017 - 2021

Notable Classes: Electromagnetism, Analog Electronics, Digital Electronics, Material Science, Quantum Mechanics, Classical Mechanics, Physics Laboratories, Optics, Ethics, Economics

## **Licenses & Certifications**



**Engineer In Training** - Association of Professional Engineers & Geoscientists of Saskatchewan (APEGS)

## **Skills**

MATLAB • Microsoft Excel • Python (Programming Language) • Systems Design