Philip Isaac

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Work Experience

Co-Founder and COO, *PheedLoop Inc.*. **Summer 2014**

pheedloop.com is a web startup based in Toronto which helps confernces and businesses get the feedback they need. I have been involved with everything in the company from front-end development to back-end as well as business planning and marketing. PheedLoop won the Lacavera award for entrepreneurship in Fall 2014 and within 4 short months of existance had paying users in Canada, the US, and Great Britan.

Instrumentation for Radio Astronomy, *DUNLAP institute*. **Summer 2013, 2104**

I work with the long wavelength instrumentation lab at U of T to develop a new back-end system for the Algonquin Radio Observatory, the largest ratio telescope in Canada. My responsibilities include:

- Managing and processing hundreds of terabytes of data with shell scripts and C code.
- Antenna design optimization using genetic algorithms.
- Designing circuits for low noise amplifiers, second stage amplifiers, and filters using Eagle.
- Building and repairing SMT devices using a hot air soldering station. Extensive testing using a variety of lab equiptment.
- Electromagnetic and circuit simulations using CST Studio Suite, SPICE software, and python.

Outreach Intern, *National University of Singapore*, Singapore. **Summer 2012**

I worked on exchange at the National University of Singapore developing educational science and engineering related experiments for students. Day to day, I:

- Worked with a diverse team and collaborated with the science center and university.
- Used prototyping tools such as a laser cutter and 3D printer.
- Kept detailed documentation.

Skills

Python, Web Development, Electronics Robotics, C, Linux, Machine Learning, Marketing and Business Strategy. Comfortable with a wide variety of electrical laboratory equipment.

Education

B.A.S.c Engineering Science, *University of Toronto*. **2011–2015**

3^{rd} year Engineering Physics option: Cumulative GPA of **3.69**

Classes of Note

Engineering Design, *AER201*. **Winter 2013**

Half year design course in which I worked in a team of 3 to design and build an autonomous robot. My role was to program the PIC microcontroller in assembly.

Optics *ECE318***, Electromagnetic Fields** *ECE357***, Electronics** *ECE360***, Artificial Intelligence** *CSC384***, Digital & Computer Systems** *ECE253***, Machine Learning** *Via Coursera***, Advanced Physics Laboratory** *PHY327,PHY427*.

Awards

Lacavera award for Entrepreneurship **2014**, NSERC (USRA) **2013**, Engineering Class of 5T6 Award of Merit **2012**, Jewish War Memorial Scholarship **2011**, BC Passport to Education Scholarship **2011**

Interests

Robotics and Coding, Ultimate Frisbee, Cooking, Biking, Travel, Science.