DANIEL WIJAYA

daniel.wijaya@mail.mcgill.ca | www.linkedin.com/in/daniel-wijaya

KEY SKILLS AND CHARACTERISTICS

- Microsoft Office
- SolidWorks
- AutoCAD
- masterCAM
- laser cutting
- 2-axis Tormach CNC mill
- Python
- VBA
- Matlab
- SAP
- Systematic and analytical problem solving
- Superb time management and task prioritization
- Leadership, teamwork, and mentorship experience
- Licenses: Driver's license, Private Pilot license, Glider Pilot License
- Languages: English, basic Indonesian and Mandarin
- Music: Piano (grade 10 RCM), bagpipes, trumpet

EXPERIENCE

July 2020-Present — Research Assistant, Center on Human Development and Disability, University of Washington

- Validation of high-density electrode array probe
  - Processed and manipulated neural data: data pre-processing, created spike detection, sorting, and assignment algorithm
  - mapped relationships between spikes in the molecular and granular cell layers using machine learning algorithms

May 2019-August 2020 — Celestica Inc., Toronto, ON

- Commodity Management Associate
  - Worked alongside commodity managers and engineers: conducted Bill of Materials (BOM) analysis, quote negotiations, analyzed team and project performance, reviewed and updated engineering drawings and system data in SAP
  - Automated report generation and workflow for various teams in google sheets (javascript), excel (VBA), SAP (ABAP), resulting in over 70 work hours saved in 1 year
  - Trained new employees

February-March 2020 — Toronto Film Society

- Volunteered to design promotional event posters

September 2016-October 2019 — Aero McGill design team, Montréal, QC

- VP logistics
  - Managed design workspace, inventory tracking, and coordinated recruitment events.
- Advanced Aero Co-captain

- Led and directed design, construction, and integration of aircraft sub-systems

May – August 2018

Simon Fraser University Behavioral and Cognitive Neuroscience Institute, Vancouver, BC

- Created a 3D printed "helmet", and used it to compare Optically Pumped Magnetometer (OPM) performance against an existing MEG system
- Wrote a script to automatically generate customized wearable OPM "helmet" arrays from head topology
- Investigated active shielding for wearable OPM arrays.

May – August 2017

- Designed mechanical array for cervical spine co-registration between magnetic resonance imaging (MRI) and magnetoencephalography (MEG), and utilized spinal segmentation software
- Worked with U of T Sick Kids research group to design MEG head stabilization device

2010-2016

781 Calgary Royal Canadian Air Cadet Squadron, Calgary, AB

- Warrant Officer Second Class, Deputy Squadron Commander of over 250 cadets
- Pipe Major and Lead instructor: coordinated training, band activities, and off-site exercises

EDUCATION

2016-Present

McGill University, Montréal, QC

- Bachelor of Mechanical Engineering
- GPA: 3.82

2013-2016

Sir Winston Churchill High School, Calgary, AB

- Dual Full International Baccalaureate and Alberta Diploma Program
- Top 1% in 650 student class

AWARDS

2017	Tomlinson Engagement Award for Mentoring
2016	Professional Institute Legacy Foundation Scholarship
2016	Lindsay Cook McGill Major Entrance Scholarship
2016	Alexander Rutherford High School Achievement Scholarship
2016	International Air Cadet Exchange
2015	Private Pilot Scholarship
2014	Glider Pilot Scholarship