

DANIEL WIJAYA

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Portfolio: <https://wijayad.github.io/Projects/>
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KEY SKILLS AND CHARACTERISTICS

- Programming Languages: Python, Visual Basic (VBA), Matlab, C, Javascript
- Machine Learning using Keras and Tensorflow
- Computer-aided design (CAD): Solidworks, AutoCAD
- Technical skills: masterCAM, laser-cutting, CNC
- Enterprise resource planning: SAP, Power BI
- Leadership, teamwork, and mentorship experience
- Languages: English, basic Indonesian and Mandarin
- Licenses: Driver's license, Private Pilot license, Glider Pilot License
- Music: Piano (grade 10 RCM), bagpipes, trumpet

WORK 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: filtered data and wrote algorithms for spike detection, sorting, assignment algorithm, and signal-to-noise analysis
 - Visualized relationships between spikes in different cell layers (molecular and granular cell layers) using logistic regression
- May 2019 - August 2020 Commodity Management Associate, Celestica Inc., Toronto, ON
- Worked with commodity managers and engineers to manage \$400 million annual spend
 - Undertook project and quarterly price negotiations
 - Analyzed team and project KPIs (flexibility, cost savings, payment terms)
 - Drafted and reviewed supplier agreements (NDA, SMI, T&Cs, etc.)
 - Analyzed supplier rebates
 - Reviewed and updated engineering drawings and system data
 - Compiled and calculated pricing for Bill of Materials (BOM)
 - Automated report generation and connected workflow using google sheets (JavaScript), SAP BO, SAP and excel (VBA), resulting in over 70 work hours saved in 1 year
 - Conducted training sessions for new employees and mentored successor for 4 months (during the COVID pandemic)
- May - August 2018 Research Assistant, Simon Fraser University Behavioral and Cognitive Neuroscience Institute, Vancouver, BC
- Designed and printed "helmet" sensor array to compare neuroimaging sensors:
 - Compared optically pumped magnetometers (OPM) to superconducting quantum interference devices (SQUID)
 - presented a poster on this topic at OHBM 2018

- Wrote an algorithm to create customized sensor arrays from head topology
 - Investigated active magnetic shielding
 - Designed mechanical array for cervical spine co-registration between imaging technologies (MRI and magnetoencephalography (MEG))
 - Worked with Sick Kids research group to design MEG head stabilization device
- May - August
2017

EXTRACURRICULARS

- February -
March 2020
- Toronto Film Society
- Volunteered to design promotional event posters
- September 2018 -
October 2019
- Aero McGill design team, Montréal, QC
- VP logistics
 - Managed design workspace, inventory tracking, and coordinated recruitment events.
 - Advanced Aero Co-captain
 - Investigate potential designs: blended wing body, wing-box structure
 - Directed design, construction, and integration of aircraft sub-systems (fuselage, control systems, wing)
 - Automated parts of CAD process and optimized structure with topology optimization
- September 2016 -
September 2018
- Fuselage Sub-team lead
 - Led sub-team with the design and construction of fuselage
- 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 weekly training, band activities, and off-site exercises

EDUCATION

- 2016-Present
- McGill University, Montréal, QC
- Bachelor of Mechanical Engineering
 - GPA: 3.84

AWARDS

- 2017 Tomlinson Engagement Award for Mentoring (TEAM)
- 2016 Professional Institute Legacy Foundation Scholarship, \$1000
- 2016 Lindsay Cook McGill Major Entrance Scholarship, \$12000
- 2016 Alexander Rutherford High School Achievement Scholarship, \$2500
- 2016 International Air Cadet Exchange
- 2015 Private Pilot Scholarship (Royal Canadian Air Cadets)
- 2014 Glider Pilot Scholarship (Royal Canadian Air Cadets)