Deniz Aydin

Location: Victoria, BC

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Education

Doctor of Philosophy	*University of Victoria*

April 2013 - August 2016   *January 2020 - September 2021*
Thesis: Sensing and Emission in Optical Cavities

Master's in Applied Science	*University of Toronto*

September 2010 - December 2012
Thesis: Functionalization of Photonic Crystal Slab Biosensors

Bachelor of Science	*McGill University*

September 2006 - May 2010
Thesis project: Functionalization of Gold-Conjugated Doxorubicin

Work Experience

Semaphore Solutions	*September 2021 - Present*
Software Developer	*Victoria, BC*

- Participated in Agile Software Development Life Cycle spanning from conception through to production.
- Developed code to implement the custom-built platform for public or private laboratory operations.
- Wrote configuration files to outline the tasks that the instruments will carry out.
- Supported customer demonstrations by working closely with Field Application Specialists.
- Participated in the code review process by giving and receiving constructive feedback.
- Gave technical demonstrations to internal stakeholders.
- Provided L2 (tier-2) support for the product.

University of Victoria	*January 2020 - September 2021*
Ph.D. Student	

- Developed and maintained Python code for a frequency-locking setup involving a Raspberry-PI.
- Collected and analyzed data using Python and MATLAB.

Infinera	*June 2018 - February 2019*
Optical Test Engineer	

- Verified optical design verification and tested optical and electro-optical components.
- Upheld manufacturing standards and reported errors.
- Lab management: created and maintained laboratory infrastructure, equipment inventories, allocated resources ($ 500k worth of equipment), scheduled experiments, and managed scheduling conflicts (15+ engineers).
- Oversaw a lab overhaul. Increased the number of active workstations by careful planning.

Technical Skills

Programming and Development Tools

Python, JavaScript, C, Java, Git/GitHub, Postman/Insomnia, AWS, Docker, Camunda, HTML/CSS, Unix/Linux, CI/CD.

Business Tools

Agile, Jira/Confluence, Camunda.

Portfolio of most relevant projects

Semaphore Solutions	Wrote a file parser function that could handle .csv, .xls, .xlsx, and .xml files of various levels of complexity. (Python)
Semaphore Solutions	Wrote a file creator that could generate a .pdf populated with images, graphs, and other content based on data from database entities. (Python)
Semaphore Solutions	Used expressions in task configurations to compute linear regressions and other relevant laboratory statistics that would then route samples into appropriate tasks. (JavaScript)
University of Victoria	Made extensive use of matplotlib, pandas, numpy, and other data scientific libraries to extract raw data, automate experiments, and process information. (Python, MATLAB)

Extracurricular activities

Alpine Club of Canada, Executive Member, Trip Leader   *September 2017 - Present*
Member-at-Large
Participated in environmental impact and indigenous sovereignty discussions and voted on the summer camp organization. Organized hiking and climbing trips with other trip leaders. Led a climbing footwork clinic.

Glengarry Hospital   *January 2023 - Present*
Social Engagement Volunteer
As a companion volunteer, worked with older adults with dementia and other mental and/or physical illnesses. This work includes diversion from exit-seeking, reassurance, socialization, and help with activities such as using the phone. Assigned to $\sim$ 8-10 residents.