

Ian Brysen Pagatpatan

ianbrysen12@gmail.com | 808.651.4529 | Corvallis, OR | [linkedin.com/in/ianbp](https://www.linkedin.com/in/ianbp)

Education

Oregon State University – BS in Electrical & Computer Engineering – Minors in Math & Finance
GPA: 3.27
September 2016 – Expected June 2021 | Corvallis, OR

Work Experience

Oregon State University – Academic Technology Front Desk/Service *September 20, 2020 – Present*

- Consistently serviced 20-30 rooms per day by collecting accurate data of classroom equipment
- Assist and teach instructors and professors in moderating technical Zoom meeting configurations
- Provide quality customer service at the front desk by transferring calls and providing information

Energy Northwest – Design Engineer Intern *June 15, 2020 – September 17, 2020*

- Saved millions of dollars and time for the upcoming Refueling Outage 25 by creating a library for all Thermal Overload Relays in the Columbia Generating Station (CGS) for relay simulations in ETAP
- Revised various component data sheets & calculations alongside Senior Engineers for ease of use
- Conducted static motor-starting analysis to explore impact on certain motors & valves on AC model of CGS

Kauai Island Utility Cooperative – Power Plant Maintenance Helper *July 1, 2019 – September 13, 2019*

- Assisted with preventative maintenance of four 7.5 MW Wartsila diesel engines, steam plant, & auxiliaries
- Overhauled 1 of 4 diesel engines over four-week period alongside mechanics, technicians, & engineers
- Safely diagnosed, tested, and maintained steam turbine components and power plant auxiliaries

Kauai Ice Distributors LLC – Ice Packer *Seasonal, June 22, 2017 – September 9, 2019*

- Utilized machinery to fulfill daily quota of 8000-13000 lbs of packaged ice for customer consumption
- Maintained functionality & cleanliness of facility, dispenser and machines for continuous production

Projects & Extracurriculars

Automated Electric Motor Dynamometer *September 2020 – Present*

Currently designing a dynamometer with the ability to configure a variety of tests to determine a motor's performance ranging from efficiency, torque, and speed/RPM using Simulink RT and SpeedGoat.

PowerWorld Load Flow Tutorial *November 2020*

Developed a document outlining the tools and interface to conduct Load Flow Analysis in PowerWorld. Explicitly explained how to obtain Y-Bus matrix as well as the Gauss and Newton methods in the tutorial.

PC-Controlled Power Supply *April 2019 – June 2019*

Focused on Arduino communication and voltage/current sensor implementation. Outputs up to 2A, 2-12V over two channels that can be manipulated via PC using USART and/or through LED Display UI.

Isang Bansang Pilipino Event Coordinator *September 2018–2020*

Planned/executed for over 50+ events such as weekly meetings, retreats, alumni meetings, informational presentations, & social activities. Fundraised over \$2000 through quarterly planned fundraising events.

Beaver Sports Engineering *September 2018 – June 2019*

Participated in meetings and build days centered around developing potential sports products that include prototyping products, financial plans/budgeting, and research.

Skills

Technical

- Coding Languages: C++, C, Assembly, MATLAB, and LaTeX
- Programs: ETAP, PowerWorld, Microsoft Word, Excel, Powerpoint, Simulink, Atmel Studio, Linux, Adobe
- Experience in 3-phase power: power flow, fault analysis, One line diagrams, and motor-starting analysis

Personal

- Well organized, responsible, and cooperative person who stays on task
- Detail-oriented, dynamic, communicative, friendly, and willing to expand skill set