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Hiring Manager
Clir Renewables
200 – 1444 Alberni Street
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Dear Hiring Manager:

As a final year student of Engineering Physics at The University of British Columbia, I study a combination of physics, mechatronics engineering, and software techniques that help me approach a problem from many directions. 4 months ago, I've had the privilege of working with the Clir RA and Pipeline teams as an RA Co-op to improve and automate Clir's solar analytics capabilities. I enjoyed the work I did then, and I am interested in being a full-time member of your team starting this Summer 2022.

As one who is passionate about accelerating the global transition away from fossil fuels, I am drawn to Clir Renewables' work in improving the performance of renewable energy installations. I believe that my current experiences will help me work well as a member of your team – having been the software and firmware lead of UBC's solar-powered vehicle team, I personally developed safety-critical vehicle control and telemetry systems that will allow us to analyse vehicle performance in the future. In addition, I led the development of an application to model the performance of a solar vehicle under changing wind, elevation, and solar irradiance conditions. From these experiences, I gained an understanding of the behavior of renewable energy systems and how reliable performance can be obtained from them.

Furthermore, my previous internship at Schneider Electric gave me the opportunity to design and implement a data synchronization system to streamline the process of documenting faults and service procedures for utility-scale solar power inverters. In the process of developing said system, I learnt to anticipate and adapt to the ever-changing user requirements, and to systematically decompose difficult problems into more manageable pieces.

My experiences helped me to perform my previous work at Clir to the best of my ability. To date, I have helped to develop several anomaly detection and classification algorithms for Clir's portfolio of solar plants, as well as implemented tooling to automate recurring analytic tasks. In the 4 months since the end of my internship, I have further improved my programming skills through personal projects, developed a more comprehensive understanding of wind and solar power, and taken course electives in power systems optimization. Therefore, I hope that I will be able to contribute in some capacity to the Pipeline, Product, RA or Software teams to further improve Clir's analytic capabilities.

I would be happy to attend an interview with a Clir Renewables' representative at your chosen location and time. Thank you for your time, and I look forward to hearing back from you!

Best Regards,

David Pratama Widjaja