

# SUCCESS STORY



[www.bioalberta.com](http://www.bioalberta.com)

[www.orpyx.com](http://www.orpyx.com)

Orpyx is a digital therapeutic company that has a comprehensive turnkey solution to extend healthspan. Supported by a robust intellectual property portfolio of more than 100 patents, the Orpyx SI® Sensory Insole platform with remote patient monitoring, helps prevent diabetic foot ulcers (DFUs). The sensory insoles can be custom-milled or prefabricated and contain embedded sensors that have extensive capabilities to measure parameters such as plantar pressure, temperature, step count, and usage. For the first time, through Orpyx's proprietary technology, multiple real-world physiological and physical parameters are seamlessly available to patients and their providers. This translates into an improved patient experience, better health outcomes, and more effective utilization of healthcare resources.

The Orpyx platform has broad potential future use with its capabilities in activity quantification, gait and balance assessment, weight change detection, and general health status analysis. Future care pathway expansion includes chronic disease management, and peri-operative care for orthopedic, vascular, and general surgery applications. Applied artificial intelligence and machine learning will allow for ever-evolving insights derived from the analysis of collected data.

Future pathway expansion comes in part from having extra hands working on projects. Growing up as a dancer, Eden Guterman always had an interest in the human body, and her own medical challenges pushed her to find a career path in the digital health industry. When applying for internships as part of her



*Eden Guterman at the Orpyx lab*

Mechanical and Biomedical Engineering degree from the University of Calgary, a position at Orpyx was the perfect fit as it allowed Eden to combine both her engineering and digital health interests.

As a Mechanical Test Engineer at Orpyx during the summer, Eden had a variety of responsibilities surrounding evolution of the sensory insole platform. Doing a variety of tasks allowed Eden the opportunity to build her knowledge base in mechanical and electrical engineering and data analysis. Eden tells us, “I collaborated on a large project to automate the production calibration process, making the process consistent and more efficient. If an insole is considered a non-conformance in the manufacturing process, the test team investigates the root of the failure. This has been the most enjoyable and largest task I’ve worked on. I am lucky to work with a small team that allows me to ask questions and take part in tasks that pique my interest on top of what is directly assigned to me.”



*Eden Guterman at the Orpyx lab*

Denis Brisson, Chief Operating Officer of Orpyx, is very quick to compliment Eden’s work as a valuable team member. Denis said,

“Eden’s strong desire to learn and her passion to develop new skills was immediately evident. Being confident in her abilities, Eden often asks for additional work to help improve her skillset. She has been given many different tasks and completes many of them independently or with minimal guidance.

Eden also shows a dedication and determination toward her responsibilities that is unique to someone at this stage of her career. She adapts to change well and shows a great maturity in applying various strategies and methods to best fit a situation.

She is an inquisitive solution-finder who asks questions when needed. She stands out in project brainstorming sessions where she openly contributes her ideas. Eden is not afraid of a challenge and frequently works independently to solve problems.

She has excellent interpersonal skills, integrity, and work ethic which contributes directly to our positive corporate culture. Her friendly demeanour and hardworking nature have positively impacted her peers, colleagues, and superiors.”

The feeling is clearly mutual, as Eden responds, “The team is a large part of what keeps me excited and motivated to work at Orpyx, and the work Orpyx does is inspiring. When you are surrounded by individuals that are passionate about the same goals as you, it creates a very positive and encouraging environment for learning. I never knew my engineering skills could create a huge impact within the medical world.”

Eden’s final thoughts: “When I think of my long-term career as a mechanical engineer, I would sum it up with the word ‘growth.’ I hope to continue to work in a field in which I am interested, where I can apply my skills toward a good cause and continue learning along the way. I hope to always find myself in an environment like Orpyx that encourages growth, creativity, and support from co-workers around you.” Eden will be able to do that for at least the next nine months as she continues her internship with Orpyx - we can’t wait to see what’s next for her!

### **From Orpyx, the multitude of benefits to hiring a student intern:**

- Creates capacity enabling achievement of organizational priorities while providing meaningful training opportunities for undergraduate students.
- Contributes to strengthening relationships with Alberta post-secondary institutions.
- Enables access to talented trainees who bring novel ideas and skills from their academic programs and training experiences.
- Interns become familiar with our product, operational processes, and corporate goals which makes them desirable candidates for future recruitment.
- Funding programs like BioAlberta WIL are critical to a company’s ability to train student interns.

Contact [jamie@bioalberta.com](mailto:jamie@bioalberta.com) to learn how WIL voucher support can benefit your SME.

# WIL VOUCHER

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