

SG&M Aerie

The SG&M team is proud to present the Aerie: an automated solution to the issue of bird control and protection, and a framework for advancing the fields of industrial and agricultural monitoring in a real and necessary way.

Our team is passionate about the environment and technology, and about using environmentally responsible technology to improve the way we impact the natural world. We believe that the ideas developed in this project will be an integral part in a framework of low maintenance technologies designed to prevent harmful interactions between the enterprises of humans and the behaviours of water fowl and other migratory birds.

Our Team:



Joel Mellish

Go-Getter, Entrepreneur, Yes Man, Voice of Reason

Joel brings dedication, mechanical aptitude, and an open mind to the SG&M team. He has experience working with environmental monitoring equipment, and designing solutions to a number of commercial endeavours. His primary focus is the charging apparatus and controllers of the Aerie base station, as well as researching future design improvements.



Max Amsler

Wizard, Dreamer, Family Man, Master of His Own Domain

Max is a Communications Technologist with the Ministry of Forests, Lands and Natural Resource Operations, and is completing his diploma in Electronics and Computer Engineering Technology. His main role in this project is to design and work with optical landing assistance using object recognition and video tracking.



Joseph Bogner

Problem Solver, Jack of All Trades, Drums, Percussion

Joseph has dabbled in many academic fields, studying diverse subjects such as Accounting, International Studies, and Philosophy. He is currently working with a firm that designs, manufactures, and services electromechanical medical devices. Joseph is in charge of drone-related matters, including autonomous flight and bird-control measures. He is also designing the mechanical aspects of the base station.

The SG&M team is excited to turn their passions into a useful product suitable for wide-ranging industrial and commercial applications. We would like to express our gratitude for the guidance, provisions, and patience supplied by the staff in the Electronics Department at Camosun. Contact us at josephjarad@gmail.com, amslerm@gmail.com, or joelmellish@gmail.com.