**STRV**

STRV is a multi-functional, tracked vehicle that rests on four sets of tracks. STRV stands for Shape-shifting Tracked Robotic Vehicle and it is the codename for Blair Day and Christopher Munz-Michielin's final project. STRV will be primarily designed to assist first responders, such as firefighters, paramedics or rescue workers, assess a situation before any human has to enter it. STRV will be equipped with two cameras to provide real-time visual feedback to the controller, as well as a communications system so the controller can speak with anyone near the vehicle. STRV will be controlled via the Internet so that the controller could realistically be thousands of miles away from the disaster site.

**The Team**

Blair Day and Christopher Munz-Michielin are the two team members constructing STRV, Blair has a background in mechanical design and Chris has a background in embedded programming

**Christopher Munz-Michielin:** Christopher was born in June of 1991 in Victoria BC, Canada and has been a lifetime resident of BC's capital city. Christopher graduated High School in June 2009 and in September 2009 he entered year one of the Electronics and Computer Engineering technology program at Camosun College. Christopher has always had an interest in electronics, especially communications systems and in 2008, when he was just 15 years old; Christopher received his amateur radio operator's license. In 2009 Christopher was elected president of Victoria's West coast Amateur Radio Association, a position that he held until November 2011. In addition to radio communications, Christopher enjoys building websites and experimenting with Linux-based servers. Christopher will be responsible for all programming on the STRV's embedded Linux computer as well as the control system for the drive motors.

**Blair Day:** Blair was born in May of 1990 in Edmonton AB, where he lived until he graduated high school in June 2008, and moved to Victoria BC. In 2009, Blair took the Mechanical Engineering Technologist program at Camosun College until he left after the first year of studies to pursue his goal of becoming an Electronics and Computer Engineering Technologist. Blair brings extensive knowledge of mechanical design and processes with knowledge of creating complex circuitry. Blair will be responsible for the creation of the circuit boards and all mechanical aspects of the STRV.

With the knowledge and expertise that we both bring our results will prove to be an outstanding success. We want to thank our private investor for contributing the funds to make this project possible. We would also like to thank our project instructor Mel Dundas for his tireless support of our project and our ideas.