

New Vehicle: SUBrinna

We are very excited about the direction the team is headed. With two MATE competitions already under our belt, we have developed a strong pool of knowledge of what works well and what doesn't. With this knowledge we are building a new vehicle: "SUBrinna".

SUBrinna will take the competition up a level with innovative features such as:

Rotating Thrusters: allowing for increased thrust to weight ratio.

Modularity: allowing for easy assembly and disassembly for transport or replacement of parts.

Plug and Play style system: allowing for easy sensor addition.

TCP/IP communication architecture: enabling long distance control.

Powerful Embedded Computer: allowing image recognition and basic Artificial Intelligence.

We expect to be quite successful with SUBrinna in the upcoming 2009 MATE competition.

With sufficient support, we also plan to enter SUBrinna in AUVSI's International Autonomous Underwater Vehicle Competition.

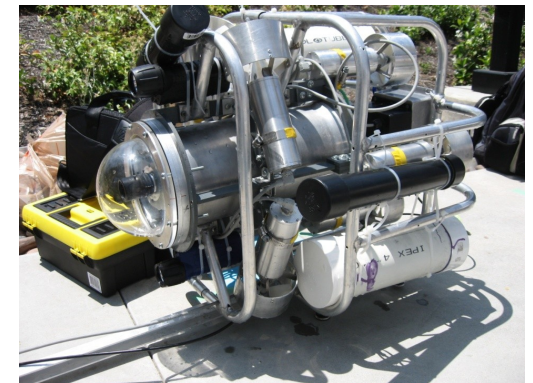


Email us:
uw2tt@engmail.uwaterloo.ca

or

Visit us online:
www.eng.uwaterloo.ca/~uw2tt

University of Waterloo
Underwater Technology Team



Neo – Our 2007/2008 robotic vehicle

Who We Are

The University of Waterloo Underwater Technology Team, founded in 2005, is a growing student team that builds underwater robotic vehicles. Our vehicles have competed in the 2007 and 2008 international Marine Advanced Technology Education (MATE) ROV competitions.

Our team is comprised of three groups:

- The mechanical group creates innovative and streamlined designs for our vehicle's superstructure and aesthetics.
- The electrical group creates custom circuit boards to supply the vehicle with its power and to operate the on-board sensors and communication network.
- The software group programs the micro-controllers and control computers to communicate and make the vehicle move.

Our Mission

Develop technology and engineers to advance the understanding of the off-shore and underwater environment.

Sponsor Us!

The team relies heavily on both monetary and in-kind sponsorship to enable successful entries into international competitions and to train the upcoming generation of engineers for the challenges of the underwater world. Your sponsorship will enable us to continue this hands-on training.

We provide recognition of your contribution on our website, in our newsletters, and on the vehicle. This raises your company's profile at international competitions and at the University of Waterloo, one of Canada's top engineering schools.

Our team continues to work very hard to prepare for this year's competition and sincerely appreciates all our sponsors. The team simply couldn't exist without all your generous donations.

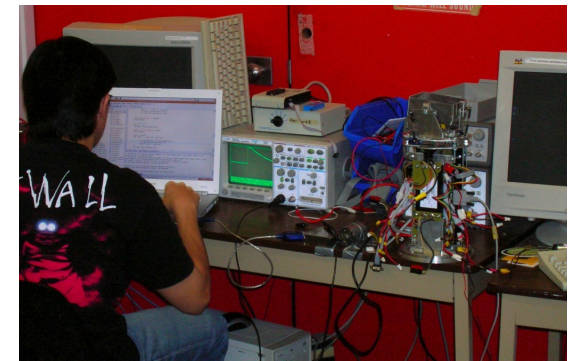
Recognition Level:	Gold	Silver	Supporter
Contribution (\$)	5K+	2K	<2K
Website, newsletters	✓	✓	✓
Vehicle Logo	Large	Small	
T-shirt Logo	✓		

Accomplishments

Designed our 2007/2008 vehicle: "Neo".

Designed and built structure shown on front cover.

Designed and built control electronics and software.



Testing Neo's Control Electronics

Competed in 2007 and 2008 international Marine Advanced Technology Education (MATE) ROV competitions, achieving 3rd place in our technical report and scoring strongly in the technical evaluation.