



Purdue University IEEE ROV Team

West Lafayette, Indiana, USA



Distance Traveled: 6788.5km

Year Competing: 2nd Year
(5th Place in 2009)

Range of Grade Levels:
Sophomore to Junior



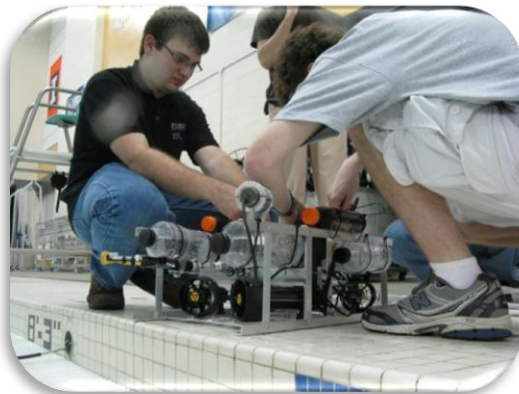
Team Members at Shedd Regional Competition

(Names below listed in order of the photo above)

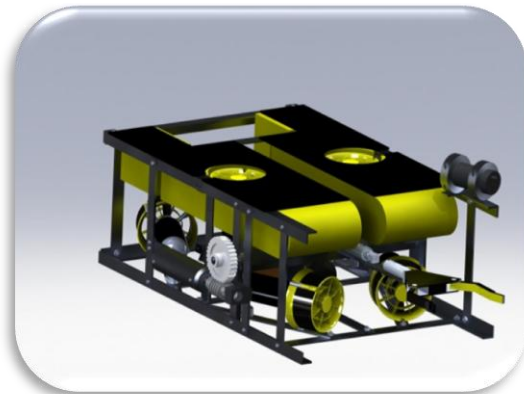
Name	Seth Baklor	Adam Siemba	Clayton Kleppinger	Clement Lan	Danielle Clifford	Max Cohen	Lawrence Goldstein	Robert Swanson
Major	Industrial Engineering	Electrical Engineering	Electrical Engineering	Computer Engineering	Professional Writing	Industrial Engineering	Mechanical Engineering	Electrical Engineering
Role	Team Captain	Mechanical	Electrical	Vice Captain	Technical Writer	Mechanical	Mechanical	Electrical

Bold indicates the 'Hawaii Crew'

ROV Competence



ROV Competence testing pool-side
(Note: Vehicle has temporary buoyancy attached)



ROV Competence Solidworks drawing

Total Cost of ROV: \$5885.90

Primary Materials Used: Aluminum, Stainless Steel, Styrofoam, Polycarbonate

Overall Dimensions: 60cm long x 35cm wide x 22cm tall

Special Features: rotating manipulator with rear storage basket, 70N of total combined forward thrust, bolted frame for easy maintenance, extraordinarily strong frame, one-dive design to finish entire mission, only one manipulator for simplicity

Safety Features: shrouds on all propellers, plastic propellers, almost every component of the ROV is inside the frame, all electrical wiring sealed with liquid electrical tape and heat shrink, all bolt heads are buttons to remove any sharp outer-edges

Total Weight in Air: 9.75 kg