

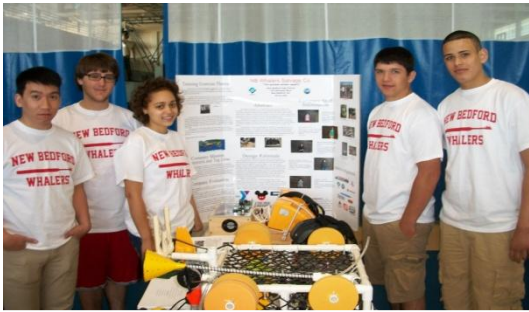
Company Spec Sheet

Company Name: NB Whalers Salvage CO, New Bedford High School

Home State: Massachusetts, USA

Distance Traveled: Driving 2,097.90865 km time- 21 hours 58 minutes/ Plane 2 hours 51 minutes

History of MATE ROV Competition: This is New Bedford High School's third time competing in the International MATE ROV Competition. With the exception of Mason St. Jacques, all of the company members are "NEW" to MATE; except this is Mason St. Jacques Second time.



NB Whalers Salvage Co. photo

Left to right: Thaison Le (CEO, and Pilot) High School Junior, Mason St. Jacques (Design Engineer) High School Junior, Alexis Almeida (CFO) High School Junior, Michael Rapoza (Electrical Engineer) High School Junior, and Jose Vargas (VPO) High School Junior.

ROV Specifications

Name of ROV: Miss Alexis

Total Cost: \$922.92

- **Donations:** \$275.35
- **Company Expenditures:** \$647.53

Primary Building Materials: Commercial PVC pipe, wiring, and mesh

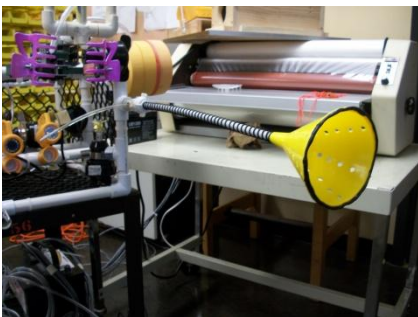
Approximate Dimensions:

- **Robot Frame:** Length: 44 cm, Width: 41 cm, Height: 25 cm
- **With Tools:** Length 98 cm, Width: 44 cm, Height: 71 cm

Total Weight in air: 5.5 kg (With Tools)

Safety Features: Plastic mesh propeller guards, 25 amp fuse, caution labels on the motors, hand filed zip tie ends, reset switch on control box

Special Features: Claw; Metric tape measure; Hand-operated vacuum pump with self aligning suction tube; Side-to-side motor for precise control; Outboard struts to improve stability. The ROV controls and heading sensor are PIC microcontroller based systems. These systems give us the ability to control the ROV in a variety of conditions and measure heading in the presence of DC motor magnetic influences.



ROV

Control box