TEAM GOALS

- Manufacture submersible motor and instrumentation housings
- Re-harnessing vehicle circuits
- Manufacture and program beach profiling devise for the vehicle
- Redesign and manufacture vehicle transmission
- Install differential GPS for effective communication
**INSTRUMENTATION**

**HOUSING**

- Water housing designed to be easily accessible in terms of wiring and insertion of water-proof connectors into cast acrylic ends.
- Flange setup was chosen for most efficient water-sealing means as well as accessibility reasons to electronics and addition of other instruments.
- Housing has ample room for addition of other instruments needed in the near shore accumulation of data.
- Cast Acrylic ends allow for easy visibility into housing to see what is going on.
- O-ring was selected for maximum efficiency involving a static flat-faced seal and impermeability of the seawater.
INSTRUMENTATION HOUSING
FLANGE AND END-CAP DESIGN

END-CAP

FLANGE
INSTRUMENTATION HOUSING ASSEMBLY
MOTOR HOUSING DESIGN

Under-water cable connector
LEG ASSEMBLY

Motor Housing
HEAD ASSEMBLY

Instrumentation Housing
FULL ASSEMBLY

Communication tower