

YONDER DEEP

LIFELONG LEARNING THROUGH UNDERWATER EXPLORATION



At Yonder, we value personal development above all else. Every member will have access to prototyping space, 3D printers, and a host of knowledge from advisors, instructors, and professors. Through workshops and rapid prototyping, you will quickly develop a multidisciplinary set of skills spanning the length of the engineering spectrum. Furthermore, over 1/3 of our members received internships last year.

OUR MISSION

- 3D printing a low cost, disposable Autonomous Underwater Vehicle (AUV) to be sent to a glacier in Spitsbergen, Norway for climate change research
- Collaborating with The Scripps Institute of Oceanography, and over \$11,000 in funding to construct 4 AUVs
- Writing two research papers: the first concerning the feasibility of a 3D printed hull, and the second a groundbreaking method of measuring the rate of glacier melting



BUSINESS

- External Relations
- Internal Business
- Graphics/Photography
- Public Relations

ELECTRICAL

- Battery/Power Systems
- Circuits/PCB
- Motions and Motor Control

SCIENCE

- Oceanography
- Marine Biology
- Ocean Chemistry

SOFTWARE

- Autonomous Guidance
- Path-planning
- Software Communications
- Motor Control
- Microcontroller

MECHANICAL

- Computational Fluid Dynamics
- Stress/Structural Engineering
- Mechanical Assembly
- Mechanical Material
- Mechanical Chemistry

If you are not an expert in these areas, we still encourage you to apply. Your enthusiasm is of the greatest value.