

# En studentorganisasjons rolle i utviklingen av fremtidens undervannsteknologi

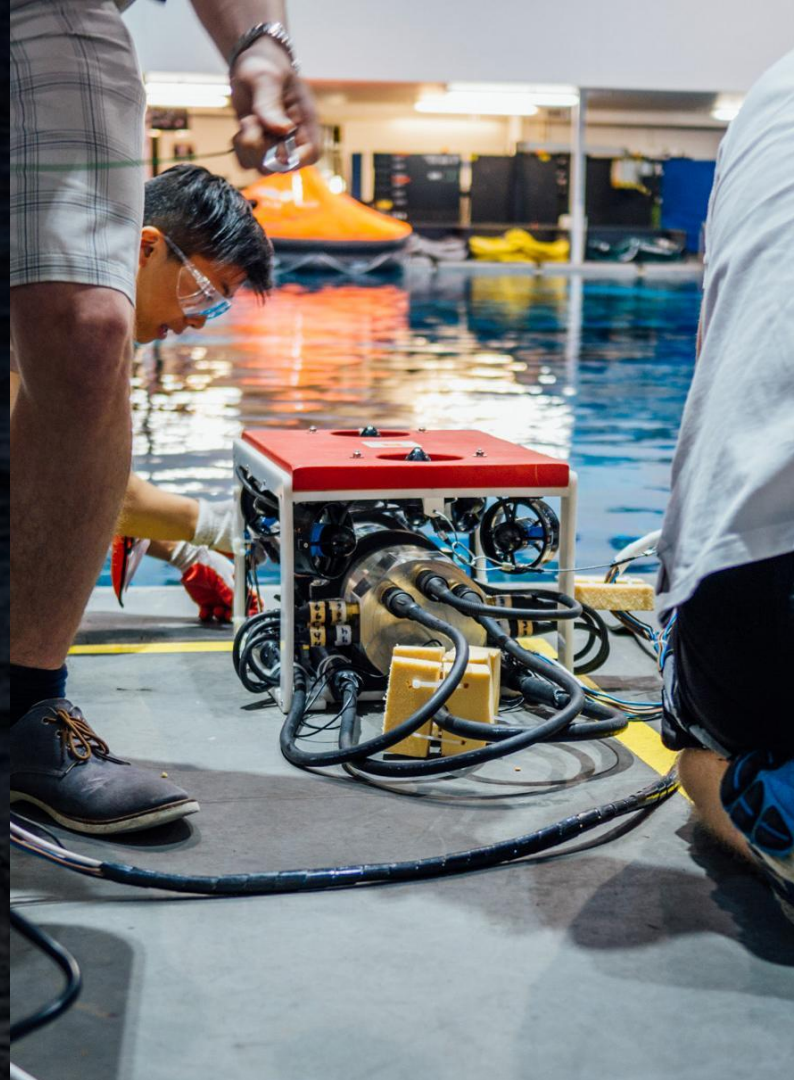
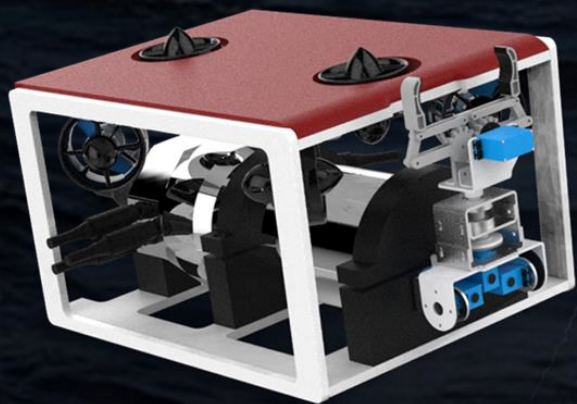
Av Petter Hoem Sletsjøe og Vegard Haraldstad



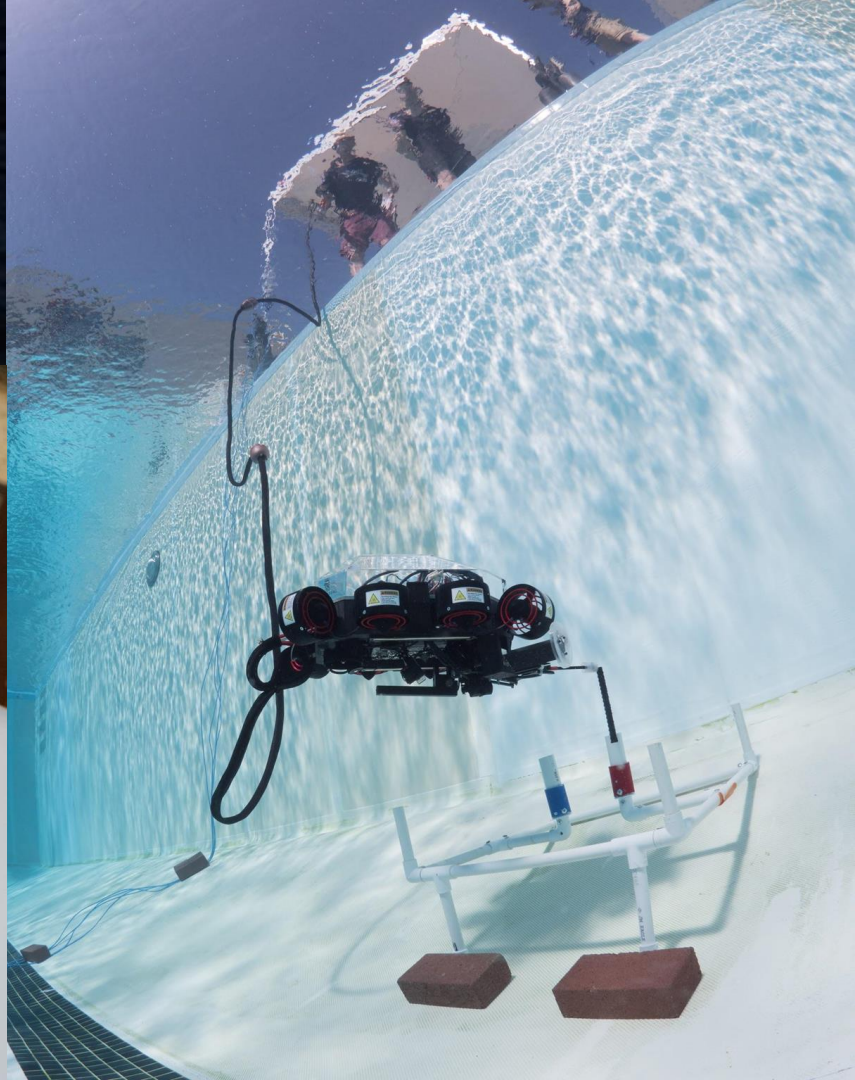
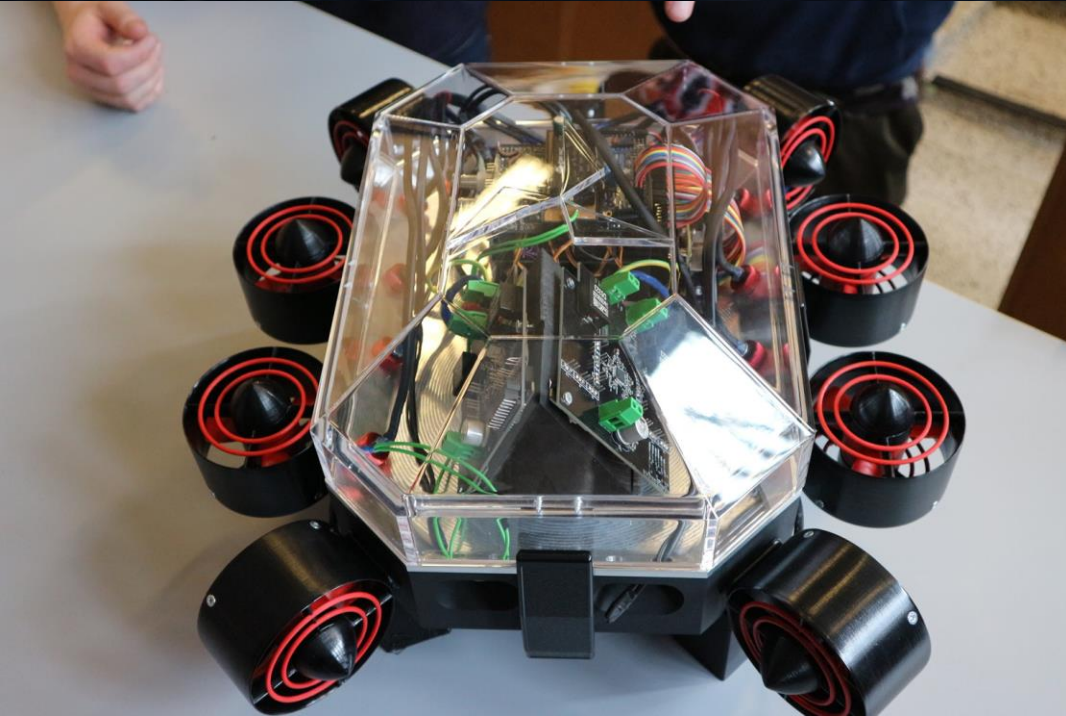
**VORTEX**  
NTNU



# Maelstrom 2016



# Terrapin 2017

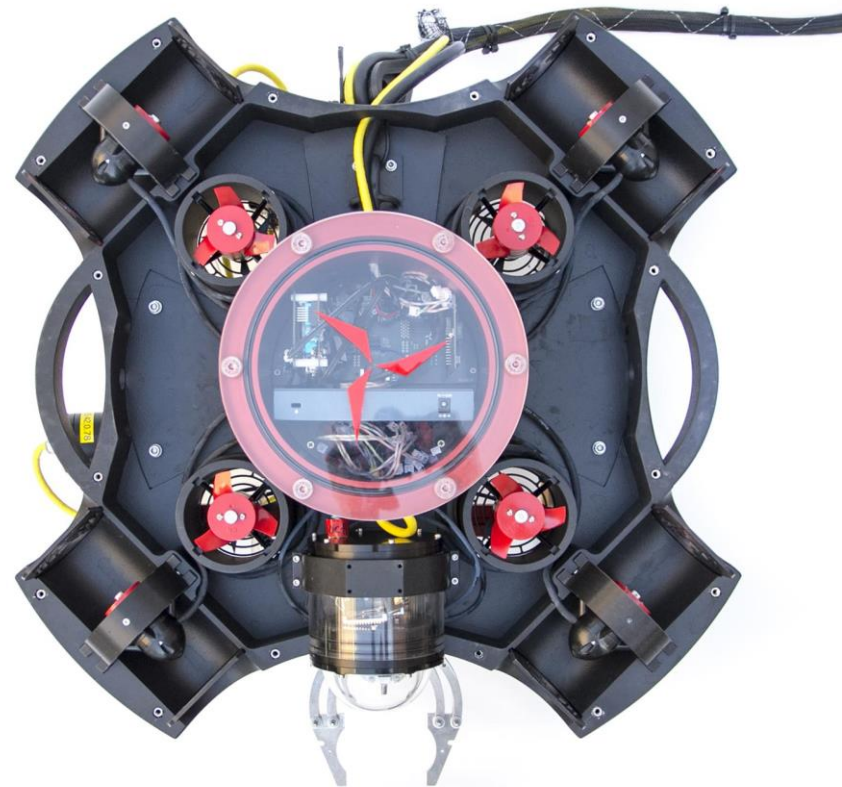


# Manta 2018



# Manta 2019: Fra ROV til AUV

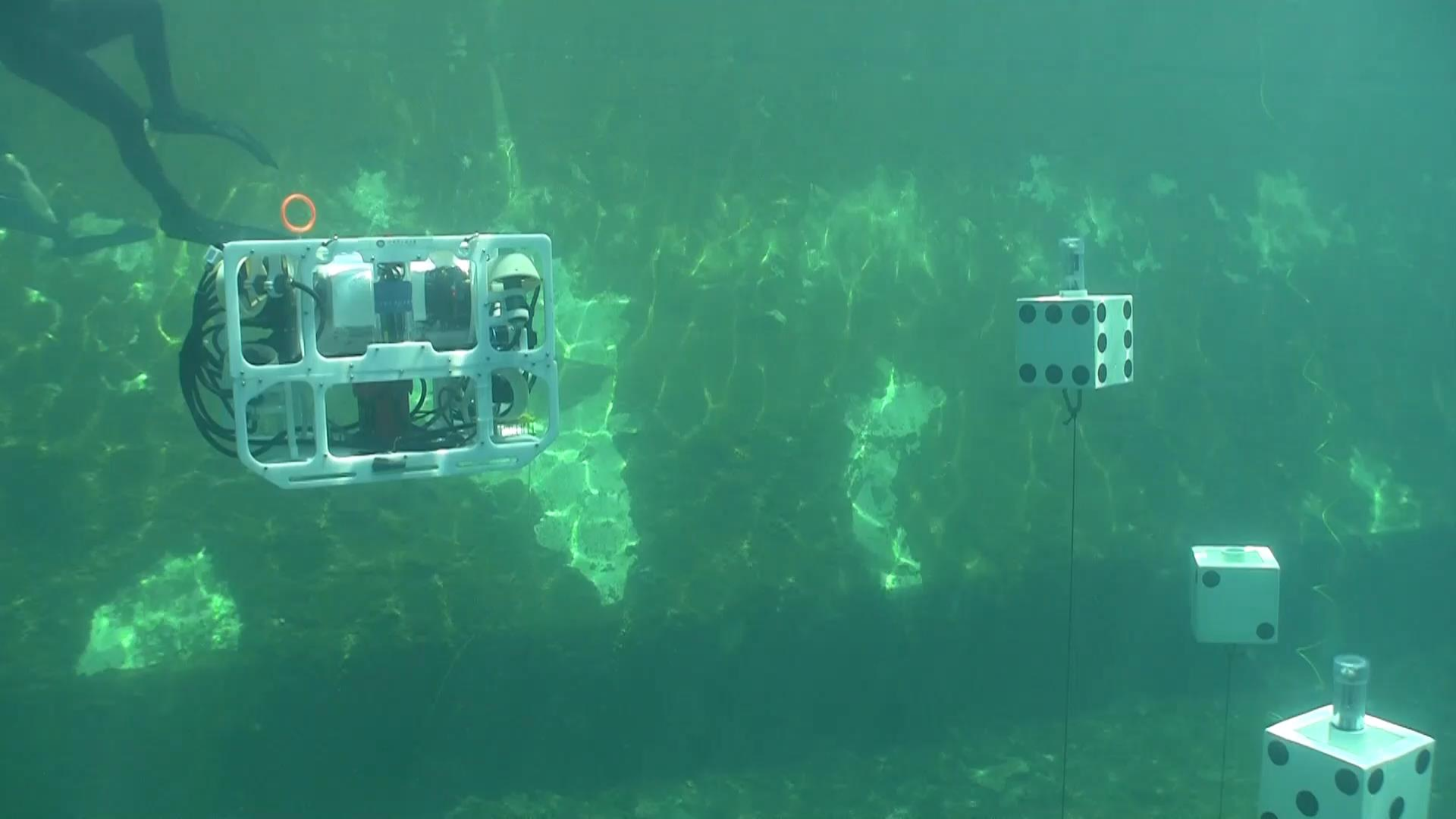
- Nye utfordringer
  - Ingen kommunikasjon med topside
  - Krever et mer robust system
- Hva som må endres
  - Ny batterimodul
  - God sensordata er essensielt
  - Evnen til å ta beslutninger



# RoboSub 2019

*“The RoboSub Competition is designed to encourage interest in the field of Autonomous Underwater Vehicles(AUVs) by challenging a new generation of engineers to perform complex missions in an underwater environment. This event also serves to develop relationships between young engineers and the organizations developing and using AUV technologies”*

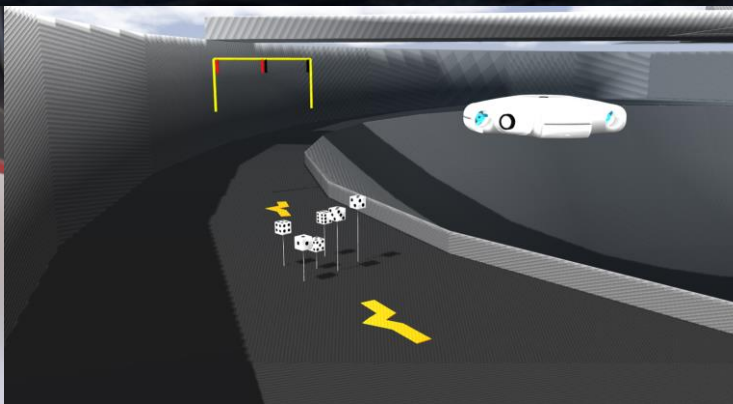
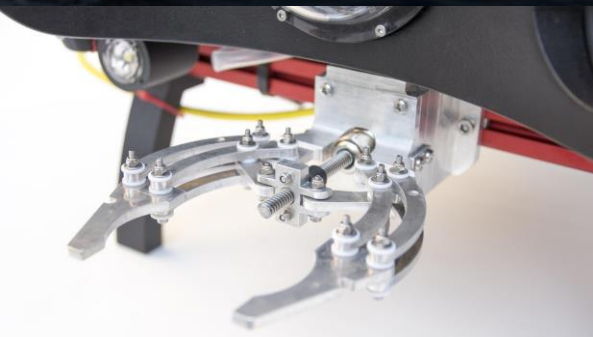
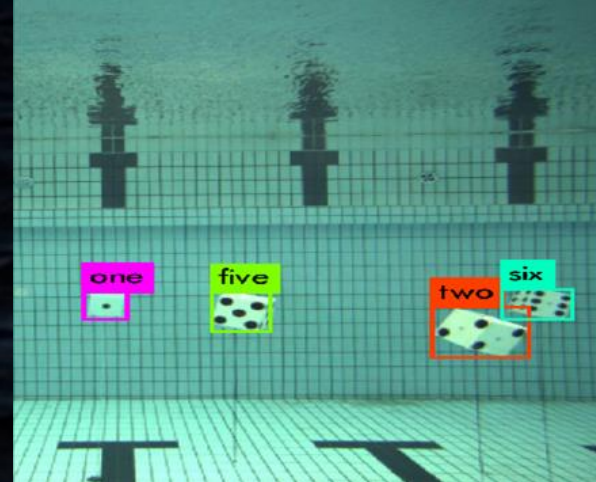


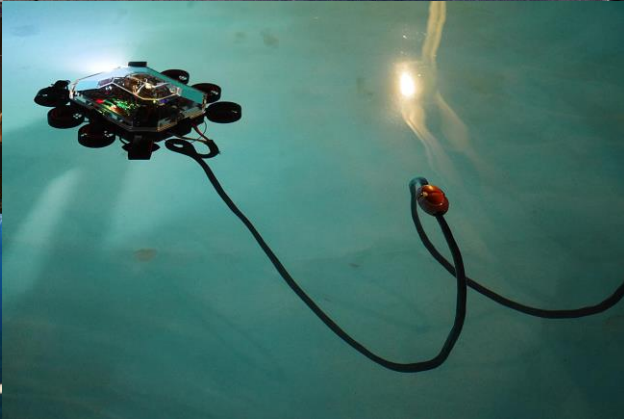




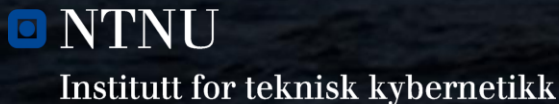
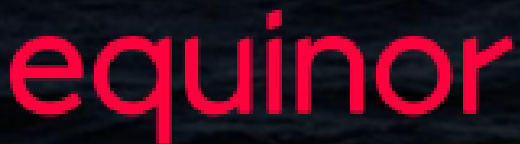
# Teknologien vi utvikler

- Hardware
- Datasyn og dyp læring
- State Estimation med IMU og DVL
- Visual SLAM med stereokamera
- Akustisk navigering
- Tooling





# Samarbeidspartnere



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