

Research Summary

These industry affiliated projects were many and varied but can be summed up in robotic autonomy;

State Estimation

- Localisation

- Online and offline model estimation

- Machine learning

- Neural networks

Control

- Actuator control

- Model based - platform control (particularly model based trajectory algorithms)

Trajectory Planning

- Obstacle avoidance

- Underwater vehicle docking

- Time/energy efficient planning

Path Planning

- Obstacle avoidance

- Path cost minimisation

Additionally I have worked in the area of

- PV Solar Power generation estimation and prediction

- Lifecycle modelling of large scale battery storage systems