







Automation v Autonomy

Perception Sensors & Contact Data Fusion

- AI/ML Intelligent Edge Devices
- Testing – LVC / Fault Injection / Stress

Strategic Planning

- Multi-objective Optimization
- Retained Energy/Mobility/Reliability/Cognition

Tactical Planning 1-v-1

- COLREG compliant actions
- Deterministic path planning
- Conventional Testing

Tactical Planning 1-v-Many

- COLREG compliant seamanship
- Predict path of contacts
- Nondeterministic path planning
- Testing TBD

LLMs

- Emergent technology