Gantt chart: 2024 – 2027 project timeline

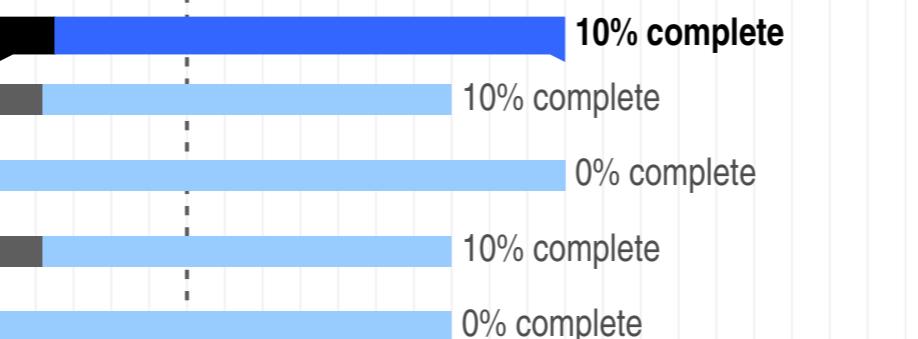**1 SHM Method Investigation** — 50% complete
- **1.1** Simulation model formulation for damage detection — 30% complete
- **1.2** Vibration-based SHM method investigation — 60% complete

2 Practical Damage Observation Study — 10% complete
- **2.1** Damage Detection Case study — 10% complete
- **2.2** Real industry observation data collection — 0% complete
- **2.3** SHM methods state of art investigation — 10% complete
- **2.4** SHM in industry condition investigation — 0% complete
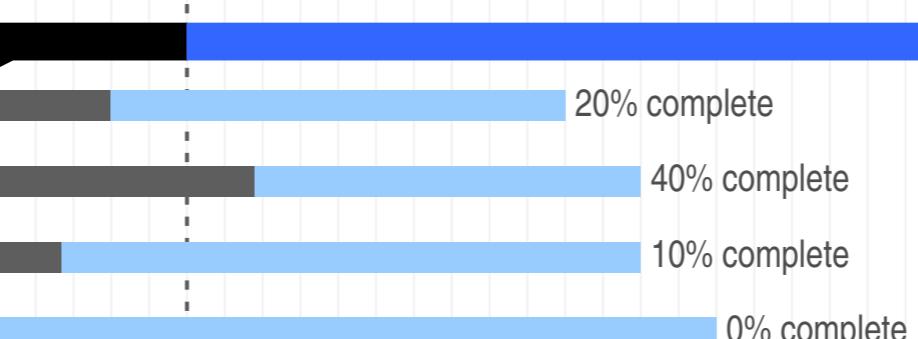
3 sequential Decision Making Modelling — 20% complete
- **3.1** Heuristic Principle Decision Modelling — 20% complete
- **3.2** Markov Decision Process Modeling — 40% complete
- **3.3** Partially Observable Markov Decision Process Modelling — 10% complete
- **3.4** Environmental Variability Modelling — 0% complete
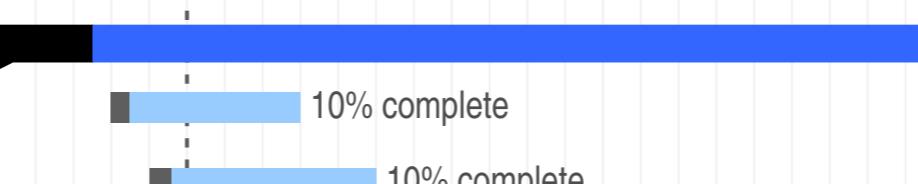
4 Deep Reinforcement Learning Algorithm Implementaion — 10% complete
- **4.1** Single-agent Actor-Critic Algorithm — 10% complete
- **4.2** Multi-agent Actor-Critic Algorithm — 10% complete
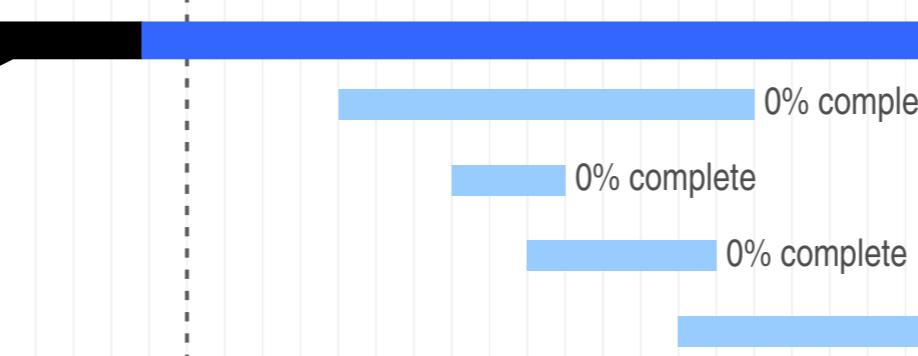
6 Writing formal paper to summarize — 10% complete
- **6.1** Contribution on Decision Making Modelling — 0% complete
- **6.2** Contribution on Structural Integrity Management Modelling — 0% complete
- **6.3** Contribution on quantifying the value of information of a SHM system — 0% complete
- **6.4** Final thesis writing — 0% complete

TODAY