**Present:**

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**Outcomes:**

* Holiday work
  + Open-loop tests – analytical derivatives supplied
  + Program will run if the following are provided {dE,HE}, {dE,HE,dL,HL}, {dE,HE,dL,HL,df,Hf},{dE,HE,dL,HL,df,Hf,dg,Hg}; crashes if a component is missing or is of wrong dimension (no error message)
  + Runtime increases with height of obstacle
  + **Notify Yuanbo about the correct order of enabling the derivatives**
  + **Try convex path constraints (e.g. a ‘smiling’ parabola)**
* This week
  + Set up workstation in Robinlab (basement, Dyson building) Tuesday
  + Closed-loop Simulink tests started Wednesday
* Agenda for next week
  + Drafting sections for the interim report – for 20th January
  + Complete Simulink tests (no ROS) – Saturday
  + Complete Simulink tests with ROS – Wednesday
* Questions for interim report
  + What goes into the project specification?
  + Discuss safety, ethical legal aspects of project (ICLOCS IP etc.)
    - **Ethical: possibility of human injury, death, technological unemployment**
    - **Legal: licensing issues with ICLOCS and constituent software IP**
* Outstanding issues with the problem formulation:
  + The degree of communication between agents
  + Zone contracts for localization and avoiding inter-agent collisions
  + MPC for the followers