

SDP H&S, Pitch Feedback, How To and Manufacturing

- Avoid obvious hazards - eating & drinking and tidiness of work areas,
- No Eating and Drinking in the labs/demo rooms
- No water, or degradable items to be used as food
- Bowls, plant pots and the likes shouldn't be too easy to knock over

Note:- Cleaning will be minimal on L3 for the next 3 months, so keep the place tidy
Use your lockers for all important project stuff especially arts and crafts materials and smaller peripheral items - label any bigger items accordingly.

- How busy is the work place? - Too busy to be filing, cutting something or am I alone and therefore shouldn't be working with anything potentially hazardous.
- Read and sign the relevant H&S sheets
- Signs - wet paint, glue drying etc
- Common sense - check the condition of the tool before use, use the right tool for the right job, open windows to ventilate area, light the area, use vices, clamps etc to hold work-piece.
- Am I likely to hurt myself or others by doing this?
- Accident form:- <https://www.ed.ac.uk/health-safety/accident-reporting>

Pitch Feedback

- Drop by for group specific feedback and advise on sensors and electro mechanics
- Match robots methods to the pitch, do background research if necessary. Use elements from the environment ie if they have lines use them if not do they have cameras or a fixed interior layout that could be mapped? Minimise environmental add ons for home use systems ie painting lines or installing tracks in a home environment isn't an attractive proposition for most homeowners.

How To

- Watch Youtube videos for Lego Robots doing similar tasks or complex tasks ie paper plane folding robot. Google for images on how lego mechanisms work. Look at the Lego books for parts maps to see what's available to build with
- On board vision - pi-cam or logitech C270 camera
- Environmental vision - ceiling and wall mounted cams, nanny cams etc

- Use sensors - Visual, Touch sensors, Mechanical sensors, simple and complex sensors
- Scale - not just the robot size, but the size and weight of peripherals and environment

Manufacturing

- 3D Printing
- Printed Circuit Boards
- Peg board
- Mechanical Workshop
- Ucreate
- Freeusehub
- Other new equipment and techniques