## SRVC Meeting(3rd July)

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Team members present- Dave, Pooyan, Walter, Ankur, Matt Dockrey, Tomas

- Main discussion was about hardware
- Need to look more closely into these micro-ATX things(low power, dedicated hardware with a decent battery solution)[Tomas]
- About Robot(hardware)
  - Problems with current small robot (Pioneer 3-All Terrain)-
    - Low battery life
    - Wheels
    - Jumping rotations
    - Fragile
    - Power-bot (used for contest in 2007 Vancouver)
      - Sturdy
        - Long battery length
      - Size is the only issue(need to confirm with organizers)[Dave]
    - Options
      - Buy a new Robot (possibly Pioneer 3DX an indoor robot with castor wheels, or some other bot) (Dave updated since the meeting - asked Marius and confirmed there's no chance to get a WillowGarage bot in time)
        - With no on-board computer to save power
        - May be extra batteries
      - Use the old power-bot if this is allowed by organizers and shipping seems feasible
- New hardware(nice to have) [Need someone to look at these]
  - New Hokuyo laser can be helpful for detecting small obstacles and tables without long table clothes(may be using two lasers for better mapping)
  - New digital camera for better interfacing(Dave suggested a Nikon dx2 or something)
- We can also consider using laptop with GPU for vision computations.
  - Walter can give us a introduction to GPUs talk.[Walter]
- Getting Laptops Ready
  - Problems with interfacing bumblebee with Ubuntu 9.04
    - we might as well use 8.04
    - install and try[Ankur]
- High priority tasks(once we get the baseline system working on new installation)
  - System Architecture to base our system on(need to discuss on different modules and messages to pass)
  - To fit in feedback based multi-view(active recognition)
  - Better visualization