ELG 4912 & 4913 - Project Suggestions

1. Automated Surveillance by Unmanned Ground Vehicle
2. Home Control and Security System
3. Landmark-based Path Following by a Mobile Robot
4. Maze Navigation by a Wall Tracking Mobile Robot
5. Four-Legged Robot Control
6. Hardware Reconfigurable Modular Mobile Robotic Agent(s) – (BioIn Robotics Lab)
7. Autonomous Scouter Control (for “Pumpkin”, the Humanoid-Robot) – (BioIn Robotics Lab)
8. Humanoid-Robot Head and Face-Expression Control – (BioIn Robotics Lab)
9. “InMoov” (3D printed) Humanoid-Robot Arm Control – (BioIn Robotics Lab)
10. Tactile Sensors on the Fingertips of a Human-Like Five-Finger Robot – (BioIn Robotics Lab)
11. Pulse-Rate Calibration Device for Biomedical Applications – (BioIn Robotics Lab)
12. Miniaturizing the Existent Multi-modal Tactile Sensor for Skin-like Applications – (BioIn Robotics Lab)
13. Voice-Based Controlled Humanoid Robotic Assistant – (BioIn Robotics Lab)
15. Object Grasping by a Human-Like Five-Finger Robot Hand with a Palm-located Tactile Sensor - (Prof. T. Yeap).
16. Object Tracking using a Fish-lens Camera - (Prof. T. Yeap).
17. Home Power Monitoring and Control System - (Prof. T. Yeap).
18. Virtual Reality Feedback for an Electric Fish - (Prof. John E Lewis. Biology)