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<th>Title</th>
<th>Autonomous control of an unmanned aerial vehicle (UAV)</th>
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<tr>
<td>Author(s)</td>
<td>Fu, Zhe</td>
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**AUTONOMOUS CONTROL OF AN UNMANNED AERIAL VEHICLE (UAV)**

1. **The Mission and the Drone**

2. **Faking a Laser Scanner**
   - RGB and depth data are combined to obtain point cloud image.

3. **Scanning and Mapping**
   - The purpose is to scan simultaneously to set up waypoints and track explored path.

4. **System Architecture**
   - Flight Controller
   - Speed Controller X4
   - Com Node
   - Ultrasonic Sensor
   - Motors X4
   - Onboard PC
   - Kinect Sensor
   - Battery

5. **Future Work**
   - LIDAR Laser Scanner
   - Fleet Flying
   - Aggressive Maneuvers
   - Weight Reduction
   - Intuitive User Interface
   - Power Management

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Project Title: Autonomous Control of an Unmanned Aerial Vehicle (UAV)
Supervisor: Prof Er Meng Joo

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