<table>
<thead>
<tr>
<th>Title</th>
<th>Dynamics of flapping wing MAV during takeoff and hovering</th>
</tr>
</thead>
<tbody>
<tr>
<td>Author(s)</td>
<td>Wang, Hao</td>
</tr>
<tr>
<td>Citation</td>
<td>Wang, H. (2010, March). Dynamics of flapping wing MAV during takeoff and hovering. Presented at Discover UREÇA @ NTU poster exhibition and competition, Nanyang Technological University, Singapore.</td>
</tr>
<tr>
<td>Date</td>
<td>2010</td>
</tr>
<tr>
<td>URL</td>
<td><a href="http://hdl.handle.net/10220/9054">http://hdl.handle.net/10220/9054</a></td>
</tr>
<tr>
<td>Rights</td>
<td>© 2010 The Author(s).</td>
</tr>
</tbody>
</table>
URECA
Undergraduate Research Experience on Campus

Dynamics of Flapping Wing MAV During Takeoff and Hovering

To understand Flapping Wing Aerodynamics during low Reynolds Number and High AOA.
To simulate Dynamics of Flapping Wing MAV during takeoff and Hovering.
To built MAV which demonstrates independent Vertical Takeoff and Hovering capability.

Modified Pitch Flapping Motion

Mechanical Simplicity.
Large thrust generation at low flapping frequency.
Potential propulsion application for MAV Takeoff and submarine system.

Flight Path Simulation and Model of Flapping Wing MAV during Takeoff

Project Title: Theoretical and Experimental Investigation on Flapping Wing Propulsion and Dynamics of Flapping Wing Craft during Take Off
Supervisor: Asst Prof Yongki Go Tiauw Hiong