

<b>ID:</b>	<b>JP16-02</b>
<b>SUPERVISOR:</b>	Justin Pead
<b>TITLE:</b>	Design of a White Lab Component Vending Machine
<b>DESCRIPTION:</b>	The UCT component store cannot stay open 24/7 however students would appreciate if they could get access to components on request. Most student requests can be solved by providing a small subset of components. A modular machine may be a solution to late night component queries.
<b>DELIVERABLES:</b>	<ul style="list-style-type: none"> <li>• Mechanical Design of a component Dispenser for different sizes</li> <li>• Electronics capable of counting, logging and dispenses components</li> <li>• *Create it in a modular fashion to be extendable as student requirements increase</li> </ul>
<b>SKILLS/REQUIREMENTS:</b>	Some Mechanical Design, Electronics, Embedded Systems
<b>ELO3: Engineering Design</b> Perform creative, procedural and non-procedural design and synthesis of components, systems, engineering works, products or processes.	<i>Mechanical and Electrical Design of Vending Machine modules, Testing for system and potential improvements if time allows.</i>
<b>EXTRA INFORMATION:</b>	
<b>AREA:</b>	Electronics / Embedded Systems