

A5		Risk Source		
		External	Preventable	Strategic
Risk Category	Safety	<ul style="list-style-type: none"> <li>- Someone trips and falls on our claw(s), sustaining an injury or damaging our claw.</li> <li>- Natural disasters (seismic events) or fire alarm.</li> </ul>	<ul style="list-style-type: none"> <li>- Sharp parts of the device causes cuts.</li> <li>- Metal of the claw could cause deep lacerations because of improper use.</li> <li>- Claw could close on the user's hand or pinch somebody.</li> </ul>	
	Technical	<ul style="list-style-type: none"> <li>- Undetected defects that weren't identified by team members (e.g. inadequate sheet metal quality).</li> <li>- Software updates/code changes by manufacturer cause Arduino to stop working.</li> </ul>	<ul style="list-style-type: none"> <li>- The claws don't produce sufficient force to hold and lift the objects.</li> <li>- The servos/sonars stop functioning as expected (e.g. the claw closes too early, refractions in material causes sonar to lose control.)</li> <li>- Portable battery is uncharged on competition date.</li> </ul>	<ul style="list-style-type: none"> <li>- The rubber tube used to make the claws grippier, could cause difficulty for the claw to slide on the ground and under objects.</li> </ul>
	Project Management	<ul style="list-style-type: none"> <li>- Teammate is sick or can no longer participate due to extenuating circumstances.</li> </ul>	<ul style="list-style-type: none"> <li>- Team member(s) fail to appear during competition date, studio, arranged meetings, etc... in which prior agreement was reached or decided as a group.</li> <li>- Rules and scoring were misinterpreted causing design to not meet expectations</li> </ul>	<ul style="list-style-type: none"> <li>- Meetings could be deliberately scheduled in which one/two members are absent due to justified reasons (with the teammate knowing what's expected of them outside of the meeting) in order to reduce bottlenecking and increasing efficiency.</li> </ul>
	Operational	<ul style="list-style-type: none"> <li>- New rules that were not apart of the original plan could be introduced on the day of competition.</li> </ul>	<ul style="list-style-type: none"> <li>- String of the crane breaks because team member "yanks" too hard.</li> <li>- Rough control of the claw causes very unstable control.</li> </ul>	<ul style="list-style-type: none"> <li>- Team members can test the retrieval system before the competition to make sure everything is well prepared and fully functional.</li> </ul>