








JOB HAZARD ANALYSIS

Mini RC Baja Car

Prepared by: Collin McKenzie	Reviewed by:
	Approved by:

Location of Task:	Hogue Technology Building
Required Equipment / Training for Task:	Machining Training, Hogue Labs training, and operation of device training.
Reference Materials as appropriate:	ASME Baja Car Rules https://www.cwu.edu/engineering/sites/cts.cwu.edu/engineering/files/documents/met_2015RC_BajaRules.pdf ETSC Safety Policy https://www.cwu.edu/engineering/department-engineering-technologies-safety-and-construction-etsc-safety-committee

Personal Protective Equipment (PPE) Required						
(Check the box for required PPE and list any additional/specific PPE to be used in "Controls" section)						
						
Gloves	Dust Mask	Eye Protection	Welding Mask	Appropriate Footwear	Hearing Protection	Protective Clothing
✓	<input type="checkbox"/>	✓	<input type="checkbox"/>	✓	<input type="checkbox"/>	<input type="checkbox"/>
Use of any respiratory protective device beyond a filtering facepiece respirator (dust mask) is voluntary by the user.						

PICTURES (if applicable)	TASK DESCRIPTION	HAZARDS	CONTROLS
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	<p>6. Light (optical) Radiation</p> <p>7. Electrical Contact</p> <p>8. Ergonomic/ Human Factors</p> <p>9. Environmental</p>	<p>splashes or spills of hot material</p> <p>Exposure to strong light sources, glare, or intense light exposure which is a byproduct or a process.</p> <p>Exposure, contact, or proximity to live or potentially live electrical objects.</p> <p>Working in cramped spaces, repetitive movements, awkward postures, vibration, heavy lifting.</p> <p>Exposure to noisy environments, hot or cold work environments, poor weather conditions, working at a height, and any other conditions in the workplace that could cause danger, discomfort, and/or negative health effects.</p>	
Machining support mounts.	<p>1. Impact</p> <p>2. Penetration or Cut</p>	<p>Person(s) can strike an object, or be struck by a moving or flying/falling object (e.g., fragments, chips, particles, sand, dirt/debris).</p> <p>Person(s) can strike an object, be struck by an object,</p>	<p>Wear appropriate footwear and eye protection. Follow SOP machine. Ensure all instructions and operating procedures are read and</p>

		<p>or fall upon an object or tool that would cut or otherwise break the skin.</p> <p>An object(s) or equipment/machine may crush or pinch a body or body part</p> <p>Exposure to chemicals (i.e., hazardous substances and harmful physical agents), infectious agents from spills, splashing, physical contact, and/ or exposure to dusts, vapors, fumes, or gases that could cause illness, irritation, burns, asphyxiation, breathing/vision difficulty, sensitization, infection, or other toxic health effect</p> <p>Exposure to radiant heat sources, sparks, and splashes or spills of hot material</p> <p>Exposure to strong light sources, glare, or intense light exposure which is a byproduct or a process.</p>	<p>understood prior to operation. Focus on safety features outlined. Ensure all PPE is worn.</p>
	3. Crush or Pinch		
	4. Chemical or Harmful Dust		
	5. Heat		
	6. Light (optical) Radiation		

	<p>7. Electrical Contact</p> <p>8. Ergonomic/ Human Factors</p> <p>9. Environmental</p>	<p>Exposure, contact, or proximity to live or potentially live electrical objects.</p> <p>Working in cramped spaces, repetitive movements, awkward postures, vibration, heavy lifting.</p> <p>Exposure to noisy environments, hot or cold work environments, poor weather conditions, working at a height, and any other conditions in the workplace that could cause danger, discomfort, and/or negative health effects.</p>	
Drill press mounting holes on chassis.	<p>1. Clean the table.</p> <p>2. Load the vise</p> <p>3. Lock the table in place</p> <p>4. Load the bit</p> <p>5. Start the drill</p>	<p>Eye injury from metal debris.</p> <p>Foot injury if the vise falls.</p> <p>Finger pinching while sliding the vise.</p> <p>Back strain</p> <p>Hand injury from the bit</p> <p>None Foreseen</p> <p>Injury caused by breaking the bit</p>	<p>Wear appropriate footwear and eye protection. Follow SOP of machine. Ensure material is in vise or clamp securely. Ensure PPE is worn.</p> <p>Ensure area is clear of all tripping hazards. Be aware of hand and finger location at all times.</p>

	<p>6. Feed the drill with the feed</p> <p>7. Unload the vise</p> <p>8. Clean the table</p>	<p>Finger pinching while sliding the vise</p> <p>Eye injury from metal debris</p>	<p>Rotate job tasks when possible. Ensure table is at proper ergonomic level.</p>
<p>Drilling bolts and fastening screws</p>	<p>1. Clean the table.</p> <p>2. Load the vise</p> <p>3. Lock the table in place</p> <p>4. Load the bit</p> <p>5. Start the drill</p> <p>6. Feed the drill with the feed</p> <p>7. Unload the vise</p> <p>8. Clean the table</p>	<p>Eye injury from metal debris.</p> <p>Foot injury if the vise falls.</p> <p>Finger pinching while sliding the vise.</p> <p>Back strain</p> <p>Hand injury from the bit</p> <p>None Foreseen</p> <p>Injury caused by breaking the bit</p> <p>Finger pinching while sliding the vise</p> <p>Eye injury from metal debris</p>	<p>Wear eye protection and keep fingers away from location of drilling. Ensure area is clear of all tripping hazards. Be aware of hand and finger location at all times. Rotate job tasks when possible. Ensure table is at proper ergonomic level.</p>

	<p>Operation of Car during testing/competition</p>	<p>Fast moving devices can cause injury if struck.</p>	<p>Stay at least 10 feet away while testing and wear appropriate footwear to minimize risk of injury. Closed toe shoes. Wear proper PPE when handling or adjusting device in both on or off state.</p>
	<p>Operation of Car during testing/competition</p>	<p>Moving gears and shocks can cause injury or pinch appendages.</p>	<p>When modifying or picking up car, ensure device is off and fingers are away from potential moving parts. Wear proper PPE such as gloves and eye protection.</p>