

Name: Robert Lefrandt	Grading Quarter: 1	Week Beginning: 01/22/2024
School Year: 2023-24	Subject: Automation & Robotics	

Monday	Notes:	01/22/2024 BRHS Robotics –	Academic Standards:
	<p>Notes:</p> <p>Robotic Assemblies Mechtronics</p> <p>Engineering: ReEngineering Reverse Engineering</p> <p>Structural Chassis frame body</p> <p>Mechanical (Motion) Gear: Box, train, parallel (linear) stack (vertical), ratio, torque speed</p> <p>Electrical (Ohm's Law, Parallel/Serial Circuits) Chemical electrochemical</p> <p>Physical Magnetism Batteries</p> <p>Software Block PLC ladder logic, CNC, Python, C++,</p> <p>Sensors Bump/touchDistance Light Camera</p> <p>Physical Computing</p> <p>AI Data Collect DataAnalyze</p> <p>Collaborate with schools, 'Industry ProfessionalCommunity</p> <p>NASA, Honeywell</p>	<p><b>Objective:</b> Apply basic <b>engineering principles</b> and technical skills for... artificial intelligent management ...the principles of robotics, design, operational testing, system maintenance, repair procedures, robot computer systems, and control languages.</p> <p>(AZ CTE Automation &amp; Robotics-Program Description)</p> <ul style="list-style-type: none"> <li>• PERFORM ELECTRICAL AND ELECTRONIC TASKS</li> <li>• ANALYZE PROGRAMMABLE LOGIC CONTROLLER (PLC) SYSTEMS</li> <li>• PERFORM DRAFTING TASKS-Make dimensional CAD drawings (e.g., 2D and 3D)</li> <li>• DESCRIBE THE OPERATION AND USE OF VARIOUS FORMS OR ELECTRICAL MOTORS</li> <li>• Explain the operation and use of DC motors in automation controls</li> <li>• PERFORM MECHANICAL SYSTEMS LINKAGES TASKS</li> <li>• APPLY SENSOR SOLUTIONS</li> <li>• DEMONSTRATE SAFE AND PROPER USE OF ELECTRONIC AND OTHER LABORATORY EQUIPMENT, TOOLS, AND MATERIALS</li> </ul> <p><b>Lesson Overview:</b> Workflow Process:</p> <p>1st Semester Students:</p> <ul style="list-style-type: none"> <li>• Login to VEX Certification Accounts:</li> <li>• VEX V5 ,Block Programming, Python Programming, Workcell <ul style="list-style-type: none"> <li>• RemoteCotrol and building VEX V5 Robots -Speedbot/Base Bot</li> <li>• Coding-Block/Python/C/C++</li> </ul> </li> </ul> <p>Sensors :Bump/touch, Distance, Line Tracker, Camera, , AI, Data Analysis</p> <p><u>***Customizing Robots and Parts : After Completing 1<sup>st</sup> Semester Skills</u></p> <p>2nd Semester Plus+ Students:</p> <ul style="list-style-type: none"> <li>• Login to VEX Certification Accounts: (Complete Certifications)</li> <li>• Tinkercade(Autodesk)/PHET(Physics-Engineering-Tech) Univ-Colorado</li> <li>• 3D Modeling, Electric circuits, Arduino IDE – C/Python Code</li> <li>• Prototyping: 2D Sketch &gt; 3D Modeling &gt; 3D Settings &gt; 3D Printing</li> <li>• Inkscape &gt; Tinkercad &gt; Ultimaker Cura &gt; Ultimaker</li> </ul> <p>*Autodesk Fusion 360/Solidworks: Combine 2d Sketch/3D Modeling</p> <ul style="list-style-type: none"> <li>• Raspberry Pi – Pico Bluetooth/WiFi</li> <li>• Python</li> </ul> <p>Precision Machining :</p> <ul style="list-style-type: none"> <li>• Manual/Traditional - Mill and Drill ,</li> <li>• CNC –ComputerNumeric Control –G/M Code</li> </ul>	<p>Arizona Department of Education Website:</p> <p>Program Description/Industry Credentials/Coherent Sequence/</p> <p><a href="http://www.azed.gov/cte/ar/">www.azed.gov/cte/ar/</a></p> <p><a href="http://www.azed.gov/sites/default/files/2021/06/ProgramDescription_AutomationAndRobotics.pdf">www.azed.gov/sites/default/files/2021/06/ProgramDescription_AutomationAndRobotics.pdf</a></p> <p><u>Arizona Career and Technical Education Professional Skills have 9 areas of measurement:</u></p> <p><a href="http://www.azed.gov/cte/profskills/">www.azed.gov/cte/profskills/</a></p> <p><a href="http://www.azed.gov/sites/default/files/2022/08/PrintablePreassessment.pdf">www.azed.gov/sites/default/files/2022/08/PrintablePreassessment.pdf</a></p> <ol style="list-style-type: none"> <li>1. Communication</li> <li>2. Collaboration / Teaming Abilities</li> <li>3. Thinking and Innovation / Problem Solving</li> <li>4. Professionalism / Formal Behavior</li> <li>5. Initiative and Self-Direction / Leadership</li> <li>6. Intergenerational and Cross-Cultural Competence / Acceptance and Inclusion</li> <li>7. Organizational Culture / Values</li> <li>8. Legal and Ethical Practices / Safety</li> <li>9. Financial Practices</li> </ol>

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