**Project Proposal**

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| **Student Name:** |  |

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| **Project Title:** |  |

**Project Description:** *Briefly describe your objective using non-technical terms. Example: “I will make a coffee bean roaster by adding a microcontroller, temperature sensors, and a solid-state AC switch to an off-the-shelf consumer-grade popcorn maker.”*

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**Diagram**: Include a diagram schematically depicting your system. A circuit diagram of how the components will be connected is the best.

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**Sensors/Inputs*:*** *List the sensors you will use. Include the quantity to be sensed and the type of signal. Choose a name for the sensed signal. Example: “Temperature sensor: Resistance Temperature Detector (RTD): Analog voltage 0–5 V: Temp1.” If you are still looking for some important information, say so.*

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**Actuators/Outputs:** *List the actuators you will use. Include the type of actuation and the form of the actuation signal, including voltage, current, and power requirements. Choose a name for the actuation signal. Example: “D/C motor: DeWalt brushed d/c motor: 24 VDC/250 A/1100 W: Motor1.” If you are still looking for some important information, say so.*

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**Functionality:** *Show how your system will handle inputs and outputs with a flowchart or other schematic. A flowchart should show the logic used in your code.*

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