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CIT 360

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**BK Use Case Document**

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| **Name:** | **3D Printer Remote Controller** |
| Summary: | The 3D printer needs a remote way to control the power to the printer as well as peripheral devices that surround it. |
| Version: | 1 |
| Preconditions: | The 3D printer needs to be configured and working with an Octoprint interface. |
| Triggers: | The use of the device is when being physically present to turn on certain devices is not allowed. |
| Main Success Scenario: | The main success scenario will be having a remote interface that allows starting and monitoring 3D prints in conjunction with Octoprint. |
| Alternative Success Scenario: | If starting prints is unattainable, at least being able to remotely control the LED lights and Webcam for remote monitoring of print jobs. |
| Post-conditions: | The Controller interface will allow for remote control of the 3d printer for monitoring and stopping failed prints early on before filament is wasted. |
| Business Rules: | Only Authorized users will be granted access to the remote interface. This will prevent accidental print terminations. |
| Notes: | A Raspberry Pi will need to be used to control the relays. |
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