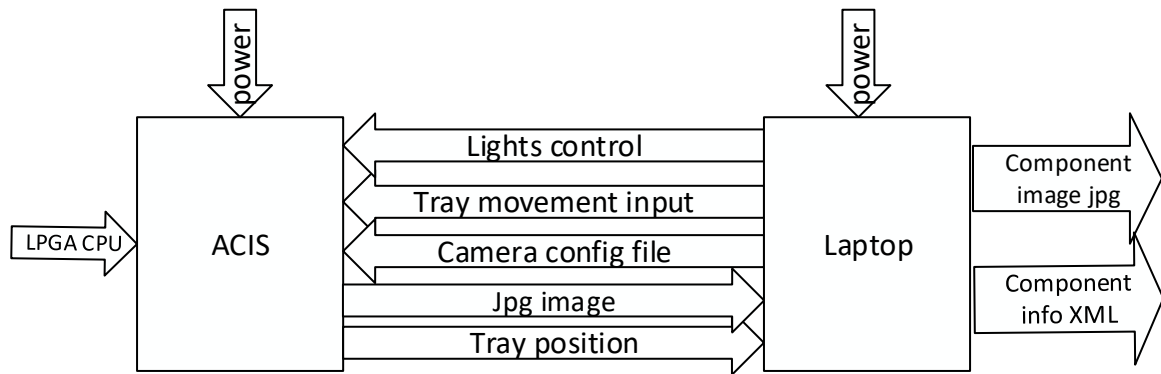


| Module | CPU Scanner |
|---------------|--|
| Input | CPU: Any LGA CPU |
| Output | CPU Condition: The Physical condition of the CPU |
| Functionality | Scan a CPU to determine the physical condition |



| | |
|---------|---|
| module | CPU component scanner |
| input | 120 VAC components to be imaged |
| Outputs | Jpg of components XML component data |

Presence of
magazine

ACIS

Presence of
cameras

Switch

Lights

Arduino

Stepper
motors

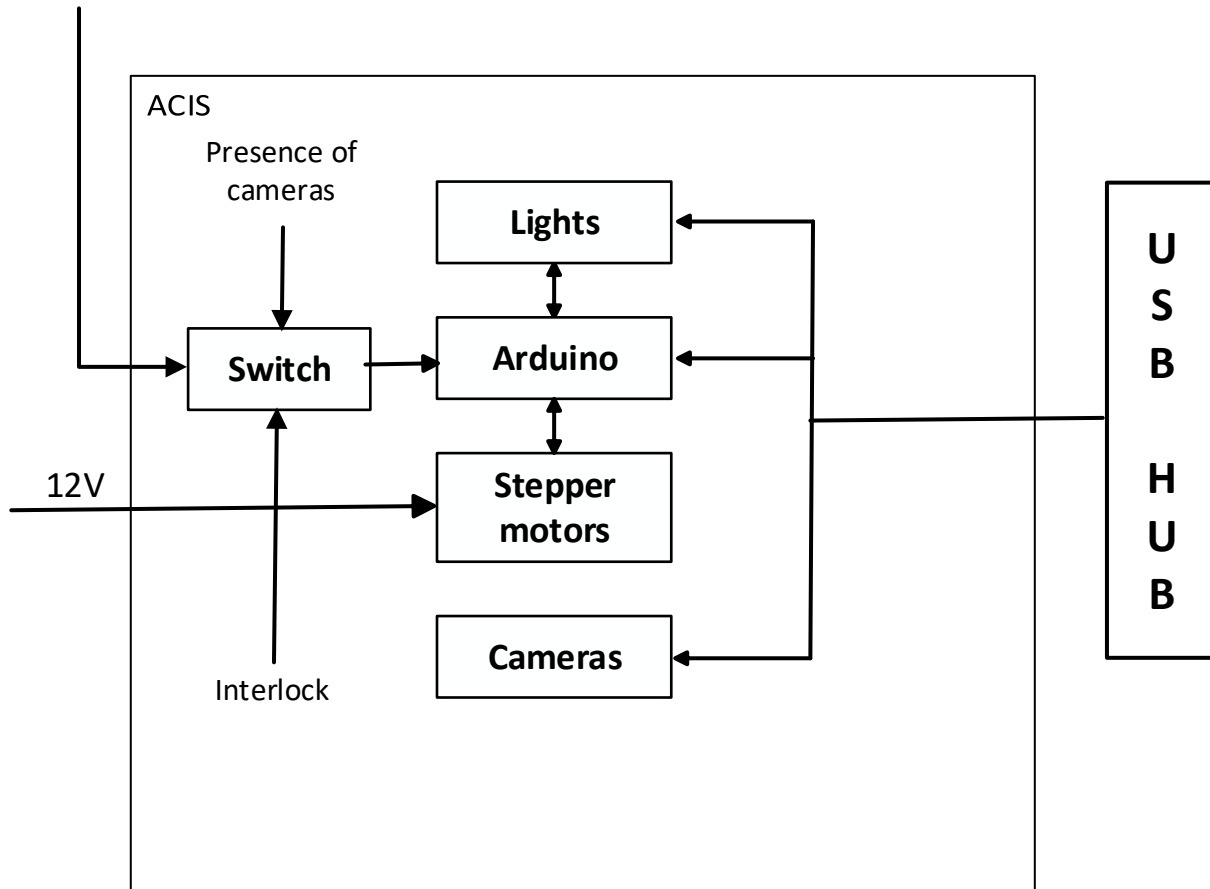
Cameras

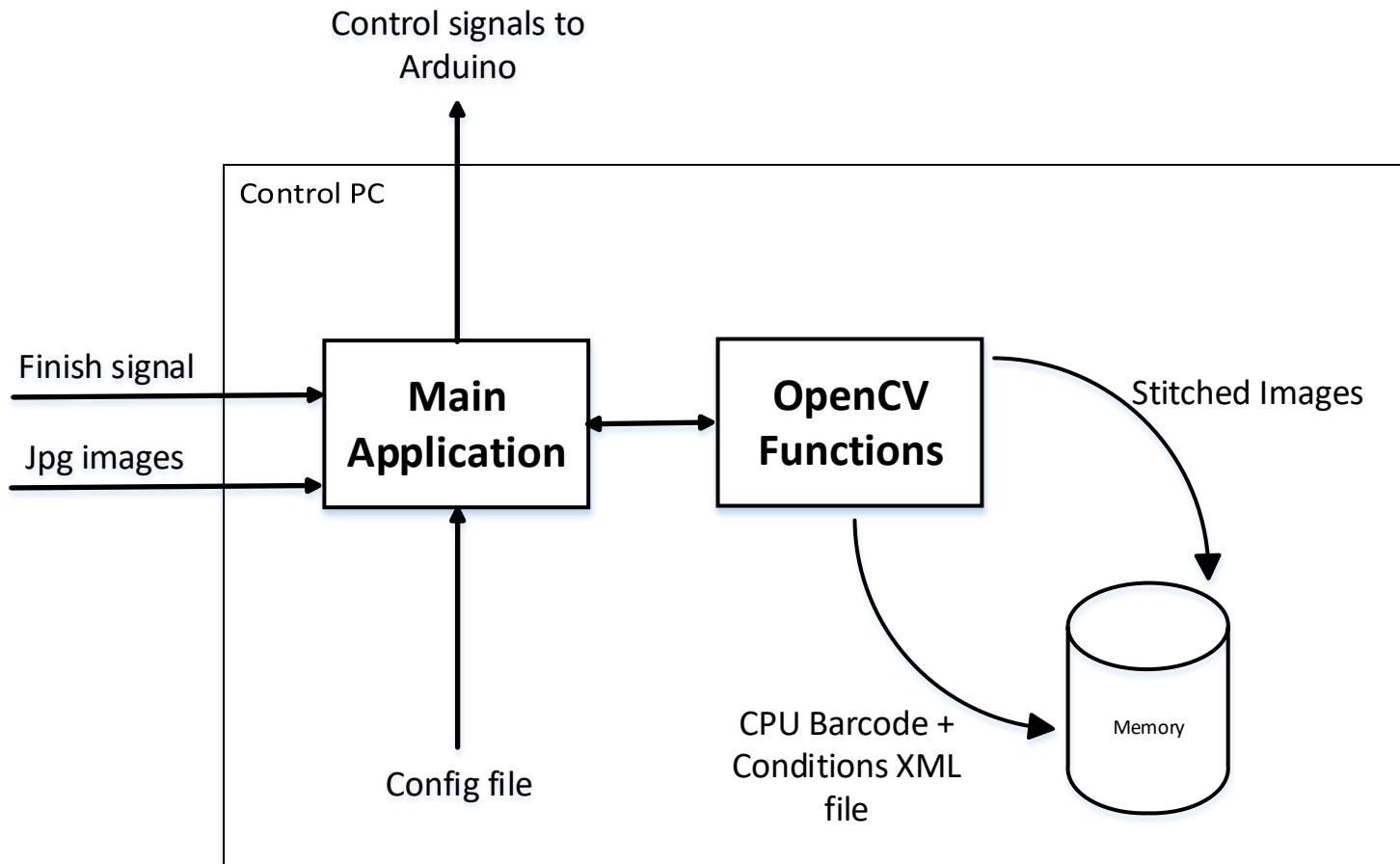
12V

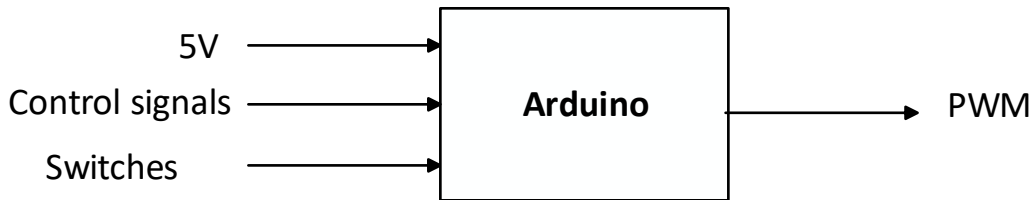
Interlock

U
S
B

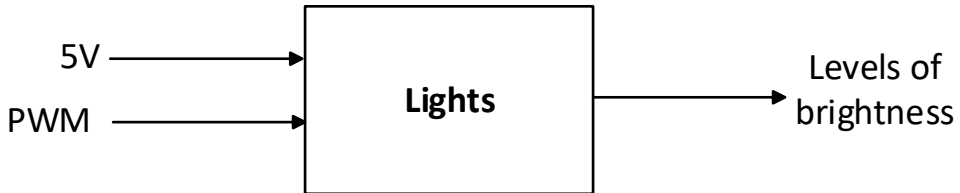
H
U
B



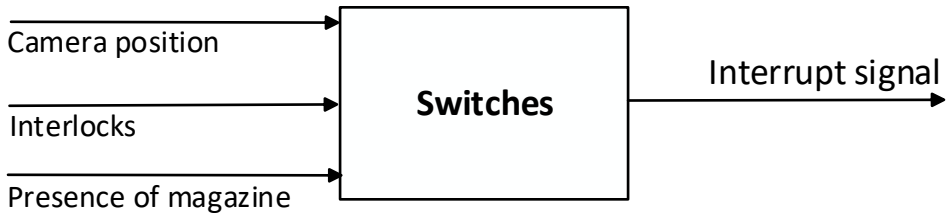




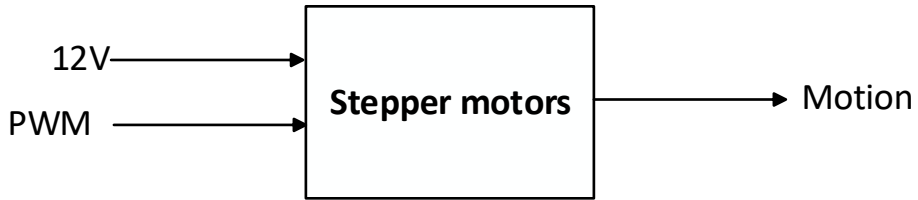
| Module | Arduino Controller |
|---------------|---|
| Input | 5V Switch position Control signals |
| Output | PWM signals |
| Functionality | Send PWM signals to stepper motors, lights to start the scanning process based on the control signals from main application (which based on a config file) as the magazine inserted |



| Module | | illumination control |
|---------------|---|----------------------|
| Input | 5V PWM signal from Arduino | |
| Output | Lights' brightness | |
| Functionality | Take PWM signal from Arduino as input to provide light emission | |



| Module | Switch sensing magazine |
|---------------|--|
| Input | 5V Magazine Camera position Interlocks |
| Output | Interrupt signal (1 or 0) |
| Functionality | Send an interrupt signal to Arduino as the magazine inserted to start the scanning process |



| Module | Stepper motors motion |
|---------------|--|
| Input | 5V PWM |
| Output | Stepper motors motion |
| Functionality | Take PWM control signals from Arduino to start rotating stepper motors |