# Risk Analysis

With each component in the system comes a varying degree risks. Some risks are more likely to occur than others, while some may have a more severe impact. Through personal experiences and research done in each area concerned, this section will show probabilities and severities of each identified risk, along with any mitigation that is going to be implemented.

The probability of each occurrence, denoted as **Prob.**, will give the likelihood on the scale of 1 to 5. 1 will be the lowest likelihood while 5 will be the highest. The severity of an occurrence, denoted as **Sev.,** will give the amount of impact that an event will have, similarly as before with 1 being lowest impact and 5 being the highest.

## Microcontroller

**Table x.** The major risks and mitigation for the system’s microcontroller.

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| --- | --- | --- | --- |
| **Risk** | **Prob.** | **Sev.** | **Mitigation** |
| Overheating | 2 | 4 | Overheating of the microcontroller is a possibility during the completion of the challenges. Since the size limitations on the system eliminate the possibilities of extra cooling systems, extra care needs to be taken to optimize microcontroller operation along with early and extensive testing. The Udoo microcontroller also has an x heat sink that…(**Citation**) |
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