

## **A. Description of Problem, Need or Value**

### **What are the problems and/or needs that justify the project?**

Overclockers and those who use their hardware to the limits find it useful to monitor system temperatures and resources. The remote portion of this allows them to use their phone or a second computer if they do not want to take resources from their host computer or have no monitor space to have it up.

### **Describe the target population — who specifically experiences this problem or need?**

Overclockers and system administrators need to be able to monitor their systems. Overclocking computer components can cause hardware to heat up a significant amount and often they spend hundreds of dollars on fans and liquid cooling solutions. Though sometimes seeing system resources can be useful for normal users as they can then visualize where the bottleneck in their system is.

## **B. Overview of the Design Team**

### **What is the mission of the design team?**

### **What are the team member's qualifications to accomplish this project?**

I have built and been running home servers since middle school. I have been programming in multiple languages for many years now.

## **C. Overview of Proposed Project**

### **What is the basic purpose of the project?**

Display system information: hostname, os info, architecture

Display system resources: ram, cpu, disk

Display gpu resources: vram, temperature, fan speeds

### **Who will benefit from it? Describe the geographic area and population to be served.**

Individuals who want to monitor the resources of their computer. The frontend is not designed for enterprise use, but the backend could be adapted for this use.

### **How is this project unique? For example, is it similar to other projects but designed for a different target population?**

This targets the more casual user instead of targeting enterprise use. It is open source. Most similar projects do not monitor the gpu which is a necessity for overclockers.

## **E. Project Activities and Timeline**

**What exactly must be done in order to achieve the desired outcomes?**

Write a backend

Write a frontend

**When, and in what order, must these activities be done to achieve the desired outcomes?**

Backend and frontend a little at first, then only backend till it's mostly done, then finish the frontend

**Who will carry out project activities? Who is responsible?**

Weston Belk (me)

## **G. Evaluation**

**By what criteria will the success or failure of this project be measured?**

Quality and ease of use

**What techniques or tools will be used to evaluate?**

A demonstration - how different games and programs running will affect the system

## **H. Funding**

**What is the anticipated total budget for this project?**

\$0

**Give a complete budget breakdown.**

Labor - \$0

Time - Priceless

**What is the anticipated source(s) of funding?**