**Highlander Combat Robotics Project Proposal**

**Name of Project:** Arena Upgrades: Lights

**Names of Group Members:** Ricky Vo (862351700), Minjun Song

**Objective:** Provide lighting to the combat arena for a more pleasant experience for everyone

**Timeline:**

| Task | Description | Start/End Date |
| --- | --- | --- |
| Buy lights |  |  |
| Set up lights | Put lights into the arena and connect to the power supply |  |
| Corner Lights | Create a structure to have lights in the corner |  |
| Main Lights | Create structure where we can put lights in for the arena |  |

**Budget:**

| Item | Description | Quantity | Price |
| --- | --- | --- | --- |
| https://www.amazon.com/BTF-LIGHTING-Individual-Addressable-150Pixels-Non-Waterproof/dp/B088BB8WTZ/ref=sr\_1\_7?dib=eyJ2IjoiMSJ9.iFyE\_eiEp7Ki6\_xQUc7oL7wC0bj6FD158r9DNL42oSFBGz2GLZNMg6r8CmxvYaaxvXkNMQ8Ap8yr8YYb1julVHlR-IXfDJGot\_o8JWel0gjeSjuHz\_IgROp-tkwto6c2p2xr369i5rFoGiV7Qb32aQoSG4LHEVrYwmaS4mVhCANkRwgcCmPsBvSmaWgX7CBTfdzt-5mdZtoA8U7Kcp-FUJkoLuAzjmA7I89HfgkrC3Bq3PbOTPf4bq901dNG3092oUBLgD1KEmpw6LGRHtOmoCB6B8uPaOKwbd\_PCHbdjNo.UhZZi9EcJlO9\_dxtSgGP0\_46aObqVJ2qb24KlQJcBpA&dib\_tag=se&keywords=arduino%2Bled%2Bstrip&qid=1708735166&sr=8-7&th=1 | Lights for the whole arena | 3 | $45 (excluding tax) |
| Arduino Uno | Used to control light through coding | 2 (most likely one) |  |
| https://www.amazon.com/BTF-LIGHTING-AC100-240V-Transformer-Converter-5-5x2-1mm/dp/B089GWVT61/ref=pd\_bxgy\_img\_d\_sccl\_2/136-6136160-5415759?pd\_rd\_w=YMzI4&content-id=amzn1.sym.2b132e63-5dcd-4ba1-be9f-9e044543d59f&pf\_rd\_p=2b132e63-5dcd-4ba1-be9f-9e044543d59f&pf\_rd\_r=R275PR70H4JPTD3ZSVG6&pd\_rd\_wg=OC85T&pd\_rd\_r=13f0f193-e50e-4a88-af45-3095695bc9a5&pd\_rd\_i=B089GWVT61&psc=1 | Plug for light (need just in case) | 2 |  |

Total: