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| **Group** 27 | Item Tracker |
| **Major:** | **Team members:** |
| CS | Mohammad Aljagthmi |
| EE | Ryan Ly |
| CEG | Jake Manser |
| CS | Donald Taylor |

**Design Standards**

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| Stand. No. | Standard |
| 10 | The wireless fidelity connectivity (WiFi) connection shall conform to IEEE 802.11 standard. |
| 20 | The molded plastic surface textures represented will adhere to SPI standards A-3, B-1, B-2, B-3, C-1, C-2, and C-3. |
| 30 | The LED used will comply to LED production standard ANSI C82.16-2015. |
| 40 | The tracker’s will conform to the home appliance safety standard UL 60335. |
| 50 | The mobile application will conform to ISO/IEC 29179:2012 standard for user interface design. |
| 60 | The mobile application’s hardware and software will interact in a system that will comply with ISO 9241 standard. |
| 70 | The mobile application’s usability will be tested with ISO 25062 standard. |
| 80 | The user’s inputted stored data will use encryption standard FIPS 180-4. |
| 90 | The tracker device’s wiring will conform to ANSI/NEMA WD 6-2016 standard. |
| 100 | The device’s data transmission for IP datagrams will comply with RFC 1042 standard. |
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Definitions:

IEEE – Institute of Electrical and Electronics Engineers

SPI – Society of the Plastics Industry

ANSI – American National Standards Institute

ISO – International Organization for Standardization

IEC – International Electrotechnical Commission

NEMA – National Electrical Manufacturing Association

FIPS – Federal Information Processing Standard

RFC – Request For Comments

UL – Underwriters Laboratories