

i-Guide

Team Number:15

Project Goal & Deliverables:

- Design and develop an ease of use portable device that will provide precise indoor navigation guidance for the visually-impaired.

Team Members:

Alex Mathew

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| Subsystem | Deliverables |
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| <ul style="list-style-type: none"> • Machine Vision | <ul style="list-style-type: none"> • Pin-hole camera • Trans-Impedance Amplifier Circuit • Multistage voltage gain amplifier • IR beacons with oscillator |
| <ul style="list-style-type: none"> • Path Finder | <ul style="list-style-type: none"> • Stellaris Launchpad • Mapping Code • Auto-correction code |
| <ul style="list-style-type: none"> • Audio Assistance | <ul style="list-style-type: none"> • Speaker and Speaker driver circuit • Keypad • Code |
| <ul style="list-style-type: none"> • Obstacle Avoidance | <ul style="list-style-type: none"> • Sensor Circuit • Code to detect obstacles • Wireless communication circuit |

