

Give Kids The World Village

Personalized Paver Project

Problem:

The Avenue of Angels paving stone program sells paving stones for special occasions or as a memorial tribute. Currently they have an Access database that is manually updated with the purchaser's name, the inscription, and an approximate location of the paver. However, the location description is extremely general (Ex: right side of the ice cream palace, pink pavers next to the carousel, etc). The main concern is finding a better way to locate any particular paver more accurately whenever desired.

Scope of Work:

- **Research the problem** - check industry, see how it is done elsewhere.
- **Develop Concept** - Come up with feasible ideas to solve problem and choose best
- **Design** - Take concept to design, develop theory of operation, produce documentation, determine materials, determine equipment
- **Presentation** - Present project to EAC for design review, approval and funding
- **Prototype** - Purchase equipment, develop prototype system to validate design
- **Installation/Implementation** - develop installation schedule, support any craftsman/tradesman, update any documentation with changes

Team:

- **Mentor** - Architectural or civil engineering background
- **Students - (3 to 4 max)** Mechanical Engineering, Architectural, Civil Engineering
- **Instructor**

Anticipated Schedule: (15 weeks)

- **Research Phase** - 3 weeks
- **Concept Phase** - 2 weeks
- **Design Phase** - 3 weeks
- **Presentation** - 1 week
- **Prototype** - 2 weeks
- **Installation Phase** - 2 weeks
- **Finalizing project** - 2 weeks

Time Requirements:

- **7 meetings** - 1 to 3 hours per meeting