Problem:
The entrance and exit of the train tunnel have a water feature to simulate a curtain of rain for theme enhancement. The current system is not working correctly and has issues that make it difficult to properly maintain.

Scope of Work:
- **Research the problem** - Find out what's not working, why it stopped working, how to correct it and think about how to improve it
- **Develop Concept** - Come up with some feasible solutions to solve problem and choose best concept
- **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** - Mechanical, Civil, Electrical Engineering background
- **Students** - Mechanical Engineering, Electrical Engineering, Civil Engineering
- **Instructor**

Anticipated Schedule: (15 weeks)
- **Research Phase** - 2 weeks
- **Concept Phase** - 2 weeks
- **Design Phase** - 3 weeks
- **Presentation** - 1 week
- **Prototype** - 3 weeks
- **Installation Phase** - 2 weeks
- **Finalizing project** - 2 weeks

Time Requirements:
- **7 EAC meetings** - 1 to 3 hours per meeting
- **Project Team meetings** - As required / TBD