This continuation of a past UTCA grant consists of a summer program combined with school visits to promote transportation engineering as a career choice for individuals from underrepresented groups. The program is intended to give students the opportunity to engage in the engineering-design process and to develop a skill set vital for engineers. This program offers students who show an interest in or aptitude for science and math an opportunity to develop a better understanding of this career field. Participating schools will be provided speakers and supplies to complete two transportation design/build modules. This will allow the teacher to incorporate real-world engineering experiences into the middle-school curriculum. Each school will be assigned two mentors (UAH instructor and student) who will contact the teacher and schedule classroom visits. This opportunity also allows underrepresented groups to integrate academic knowledge with creative skills through individual and team projects. The teachers will recommend students for the summer program held at the university. UA-Huntsville will host a fall visit day for students from under-represented groups with transportation displays and a design competition. The PI will manage both the school-outreach and summer university programs. The assessment task will be expanded this year with a more inclusive survey to track past participants until college age to determine impacts on their views. These surveys can be cross-correlated to the original student data received at the culmination of the program.

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**Subjects**
Education and Training
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