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| **UTC Project Information** | |
| Project Title | Developing of Surface-Mounted Smart Piezoelectric Modules for Bridge Damage Identification and Safety Monitoring |
| University | Washington State University |
| Principal Investigator | Pizhong Qiao |
| PI Contact Information | qiao@wsu.edu |
| Funding Source(s) and Amounts Provided (by each agency or organization) | University of Washington PacTrans $40,000  Washington State University $40,000 |
| Total Project Cost | $80,000 |
| Agency ID or Contract Number | DTRT13-G-UTC40 |
| Start and End Dates | December 16, 2016 – January 31, 2018 |
| Brief Description of Research Project | The objective of the proposed study is to develop an effective non-destructive ultrasonic smart piezoelectric module to be used for identifying the damage and condition (cracks, material degradation, etc.) in highway bridges. Such a smart sensing technology can be used to identify damage in bridge structures, monitor safety conditions, assist bridge maintenance decision-making, help state DOTs perform forensic studies on the bridge premature failure, and meet the PacTrans theme of “developing data driven solutions and decision-making for safe transport”. |
| Describe Implementation of Research Outcomes (or why not implemented)  Place Any Photos Here |  |
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| Impacts/Benefits of Implementation (actual, or anticipated) |  |
| Web Links   * Reports * Project Website |  |