**Project Information Form**

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| Project Title | Automated Data Collection for Origin/Destination Studies of Freight Movement |
| University | University of Central Florida |
| Principal Investigator | Amr A. Oloufa, Ph.D., P.E. |
| PI Contact Information | Department of Civil, Environmental & Construction Engineering<br><br>4000 Central Florida Blvd.<br><br>Orlando, FL 32816<br><br>(407) 823-3592 |
| Funding Source(s) and Amounts Provided (by each agency or organization) | Florida Department of Transportation $150,000. |
| Total Project Cost | $250,000 |
| Agency ID or Contract Number | DTRT12GUTC12 |
| Start and End Dates | May 2013 - May 2015 |
| Brief Description of Research Project | The collection of reliable Origin/Destination data for freight has profound consequences for a large range of applications in both planning and operations. Indeed, in both research and practice, a large number of applications rely heavily on such data.<br><br>This project has four major objectives:<br><br>1. Assess gantry-mounted cameras and OCR technology for collecting large sets of O/D Data.<br>2. Develop a database-based system for O/D data archival and analysis.<br>3. Design and deploy a hardware system for rapid installation in a large number of installation scenarios on highway gantries.<br>4. Design and deploy a solar-based system for power. |

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| Describe Implementation of Research Outcomes (or why not implemented)<br><br>(Attach Any Photos) | 1. Solar panels installed at all three sites.<br>2. Model developed for O/D of trucks.<br><br>We will install equipment on Locations 1 & 3 and start testing and collecting data. |
| Impacts/Benefits of Implementation (actual, not anticipated) | An inexpensive and automated method for Origin/Destination data collection. |
| Web Links<br><br>• Reports<br>• Project website | Installation of solar panels at the three project locations on I-75 can be accessed at the following link:<br><br>https://drive.google.com/folderview?id=0B7FuEA7yBi0hOVdfM2xaWjF4NFE&usp=sharing |