

# Asif Rehan

✉ [asif.rehan@engineer.uconn.edu](mailto:asif.rehan@engineer.uconn.edu)    [linkedin.com/in/asifrehan](https://www.linkedin.com/in/asifrehan)   ☎ (832)786-8332  
Apt#1, 114 South Eagleville Rd., Storrs, CT-06268

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|-----------------------------|--|--|
| Objective                   | Internship/full time transportation engineering position utilizing skills in Geographic Information System, computer programming and applied statistics  |  |
| Education                   | <b>Master of Science in Civil &amp; Environmental Engineering</b><br><b>University of Connecticut</b> , Storrs, CT   | <i>Expected 2015</i>                         |
|                             | <ul style="list-style-type: none"><li>• <i>Concentration</i>: Transportation &amp; Urban Engineering, GPA 3.58</li><li>• <i>Thesis</i>: Crowd-Sourcing Real-time Traveler Information System</li><li>• <i>Relevant Courses</i>: Applied Statistics I &amp; II, Travel Demand Forecasting, Neural Network for Classification and Optimization, Public Transportation Systems</li></ul>  |  |
|                             | <b>Bachelor of Science in Civil Engineering</b><br><b>Bangladesh University of Engineering &amp; Technology(BUET)</b> , Bangladesh   | <i>2013</i>                                  |
|                             | <ul style="list-style-type: none"><li>• <i>Major</i>: Transportation Engineering, GPA 3.65</li><li>• <i>Thesis</i>: Bus Stop Access Characteristics of Dhaka City Travelers</li></ul>  |  |
|                             | <b>Professional Certificate Course on Application of GIS</b><br><b>Bangladesh Institute of Planners</b> , Bangladesh   | <i>2013</i>                                  |
|                             | <ul style="list-style-type: none"><li>• Learned practically about GIS mapping, Coordinate Systems, SQL query</li><li>• Achieved 2<sup>nd</sup> position among 30+ senior GIS professionals</li></ul>   |  |
| Skills                      | <b>Programming</b> : Python (SciPy, NumPy, PANDAS, NetworkX, Scikit-Learn), Java, C++<br><b>Statistics</b> : R, SPSS, LIMDEP/NLOGIT, SAS, MS Excel<br><b>GIS</b> : ArcGIS, QGIS, ArcPy, GDAL/OGR, Shapely, Fiona, PyProj, Matplotlib<br><b>Web &amp; others</b> : SQL, HTML, JavaScript, GitHub<br><b>CAD &amp; Design</b> : AutoCAD, ETABS<br><b>Operating Systems</b> : Windows, Linux (Ubuntu, Mint), Android<br><b>Productivity</b> : L <sup>A</sup> T <sub>E</sub> X, Microsoft Office Suite (PowerPoint, Excel, Word), Prezi |  |
| Work Experiences & Projects | <b>Graduate Research &amp; Teaching Assistant</b> , <i>University of Connecticut</i>   | <i>2013-Present</i>                          |
|                             | <ul style="list-style-type: none"><li>• Implemented multiple algorithms in Python for GPS data filtering and identifying correct transit route</li><li>• Manipulated geo-temporal data using ArcGIS and open-source Python libraries</li><li>• Created GitHub repositories for version control of the implemented codes</li><li>• Assisted instructors of courses Decision Analysis &amp; Vector Mechanics</li></ul>   |  |
|                             | <b>Lecturer</b> , <i>University of Information Science and Technology, Bangladesh</i>  | <i>2013</i>                                  |
|                             | <ul style="list-style-type: none"><li>• Taught GIS concepts and application using ArcGIS in lab class</li><li>• Administered undergraduate courses and examinations</li></ul>  |  |
|                             | <b>Universal Accessibility in Public Transit</b> , <i>Design project competition</i> , Bangladesh  | <i>2013</i>                                  |
|                             | <ul style="list-style-type: none"><li>• Achieved runners-up position out of 81 university teams</li><li>• Designed low-cost solution to accommodate wheel chairs into public buses</li></ul>   |  |
| Selected Achievements       | <ul style="list-style-type: none"><li>• In top three, WTS CT Student Research Poster Competition, Connecticut</li><li>• Dean's Award, Merit Scholarships, University Scholarships, Board Scholarship</li><li>• Runners up, English Debate, 3<sup>rd</sup> BUET Debate Championship, Dhaka, Bangladesh</li></ul>  | <i>2014</i><br><i>2008-13</i><br><i>2010</i> |
| Presentations & Anchoring   | <ul style="list-style-type: none"><li>• Presented at WTS Transportation Miniseries, Connecticut</li><li>• Presented at UConn ITE Student Symposium, Connecticut</li><li>• Anchored in seminar: "Civil Engineering in Bangladesh: Problems &amp; Opportunities"</li></ul>   | <i>2014</i><br><i>2014</i><br><i>2012</i>    |
| Activities                  | <b>Affiliation</b> : <i>Institute of Transportation Engineers</i> (UConn Chapter), <i>Young Professionals in Transportation</i> (Hartford Chapter), <i>Institute of Engineers Bangladesh</i> (Associate Member)<br><b>UConn</b> : Senator at <i>Graduate Students Senate</i> , <i>CEE Graduate Students Association</i><br><b>BUET</b> : English Debate Secretary at <i>BUET Debating Club</i> , <i>Civil Engineering Students Association</i> , <i>The Duke of Edinburgh's International Award</i>                                |  |
| Interests                   | Programming, GIS, Statistical Modeling, Machine Learning, Intelligent Transportation System  |  |