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**STUDENT'S CERTIFICATE**

Certified that this report is prepared based on the summer internship project undertaken by me in COCA COLA BEVERAGE PVT LTD. from 15<sup>th</sup> May 2012 to 30<sup>th</sup> June 2012, under the able guidance of Mrs. SANA MOID in partial fulfillment of the requirement for award of degree of Bachelor of Commerce honors II Coe from Assiut University, Una Prakash.

Date: \_\_\_\_\_

<small>Tushar Verma (Student Name)</small>	<small>Mrs. Sana Moide (Lecturer/Faculty guide)</small>	<small>Prof. V.P. Saha (Director ABS)</small>
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Department of Electrical and Computer Engineering  
North South University

**Senior Design Project**

**Speech Responsive Mobile Robot for Transporting Objects of Different Weight Categories, with Localization of Sound Source**

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**Dr. Hassan-Uz-Zaman**  
**Professor**  
**ECE Department**

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team to identify potential problems early in the process and develop solutions before cost or schedule were affected. Use of this tool allowed the team to get started early with railroad and utility issues that could have affected design, increased costs, and delayed the schedule.

The team adopted a practical design philosophy that helped the project stay under budget and on schedule. Practical design also allowed for design revisions to minimize ROW takes as a cost and schedule risk control mechanism. During procurement, the project team had a process for allowing contractors to propose Alternative Technical Concepts in an effort to get good value decisions in the procurement process. The team also used independent contractor reviews and value engineering.

Colocation of a dedicated, empowered project team allowed for rapid design development and responsiveness to changes.

**Schedule**

The schedule was critical because of special appropriations (i.e., use it or lose it funds) that were going to expire if the project did not move forward. This fact was communicated to stakeholders, which helped everyone understand the need for developing a project plan that fit the budget. The support of the Missouri DOT (MoDOT) and Illinois DOT (IDOT) directors was critical to keeping the schedule moving quickly once a financially feasible project was established. A formal risk analysis and planning process informed decisions on the schedule and helped establish milestones. The schedule process was linked to cost, budget, and risk as described in the cost section above.

Schedule control was critical to control costs and keep the project affordable. The project required more integration than was typical for most IDOT and MoDOT projects. The integration



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