

**DEVELOPMENT OF THREE-DIMENSIONAL CARTOGRAPHIC DIRECTORY
AND NAVIGATION FOR CvSU INTERNATIONAL SCHOOL**

Undergraduate Thesis
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LLOYD KENETH G. LUMAIN
IVAN JUDE L. ORONICA
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ABSTRACT

LUMAIN, LLOYD KENETH G. AND ORONICA IVAN JUDE L. Development of Three-Dimensional Cartographic Directory for Cavite State University International School. Bachelor of Science in Information Technology, Cavite State University Indang Cavite. October 2013. Adviser Marlon R. Pereña.

The study entitled Development of Three-Dimensional Cartographic Directory for CvSU International School was developed to give solutions in locating the different rooms and dormitories in CvSU International School. It also has information module in order for the users to view its information. The system consists four (4) modules: administrator module which can be accessed by the administrator only in order to update the organizational chart of each officer of CvSU International School; navigation module which is for the users to freely navigate the entire CvSU International School; directory module which displays the different rooms in CvSU International School; and information module which shows the history of CvSU, mission and vision of CvSU International School, the organizational chart and the rooms.

Prototyping model was the basis in the development of the system because of the currently known requirements. The phases are the data gathering phase where the information was collected, analysis and design phase where the problems were identified and analyzed, coding and programming phase where the researchers developed the system by coding using Visual Basic 6.0 as the main software and Trimble SketchUp for the 3D models, testing and evaluation phase where the program was tested and evaluated and product where the system is ready for deployment.

The system was evaluated based on its functionality, reliability, usability, efficiency, maintainability, and portability of the system. After the evaluation, the system successfully passed all the needed requirements.

Eighty five (85) clients and fifteen (15) selected participants evaluated the system's functionalities. It was evaluated by its accuracy, consistency, correctness, reliability, user interaction, and technical aspect of the software and materials. The result of the software evaluation shows that the system was satisfactory to the users.