REPUBLIC OF MACEDONIA
Ss. Cyril and Methodius University in Skopje
Faculty of Computer Science and Engineering
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Final project proposal

Type	Master/Undergraduate
Title	***3D mobility models using GIS***
Supervisor	Assist. Prof. Sonja Filiposka
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Department / Group	
Institute for Information Systems and Network Technologies – FCSE	
Topic(s)	
Simulation and modeling	
Project can start from	01.09.2014
Project duration	4 months
Short description	
The main goal of the project is to develop and evaluate a mobility model for wireless mobile nodes that will be creating node mobility traces in 3D space using terrain information available in various GIS formats. The mobility model output should be in a format that can be than used to define simulation scenarios for some of the most popular network simulators like NS2 and NS3. The mobility model must include a very well designed random generator and needs to produce human like behavior. It also has to be compared to other similar or popular models given in the literature.	
Results and assessment	
The project outcome will be a mobility generator together with a complete documentation of properties, usage and code description, which will be evaluated by the supervisor. Also, a presentation of the work is expected.	
Other (additional) information	