

## ABSTRACT

In this era of modernization many people and student who don't know about the campus or university where they are studying or around them. Additionally comes the problem, if students or people who want to go into a building or a place in a university environment. If the student is new or families who want to know information about buildings or places on campus.

I take issue is how to provide information to the public or students around campus, especially new students who want to get to know the campus, especially in the Faculty of Applied Sciences Telkom University. I believe today, smart phones or smartphones is mandatory that belongs to the community, especially students. Therefore, I made the android-based application ARCAGE as a means to inform the public and students. This application is an application ARCAGE signposts leading to Telkom University, especially the Faculty of Applied Sciences. In addition, this application also insert Augmented Reality feature to users on the site.

Based on the testing and analysis has been done, the application can display 3D models and animations have a *GPS* feature that helps in identifying the location of the building using *Augmented Reality* technology. Augmented Reality created already made an informative application, by displaying 3D objects from FIT building just by using your Android smartphone. Augmented Reality can be displayed either by using a 5MP camera with a proviso or more user location according to the specified location.

KeyWords : *Augmented Reality(AR), Smartphone, Android, GPS*