

## **ABSTRACT**

**Rian Wijaya,**

**Final Project, 2015. " THE DESIGN OF A RECTANGULAR  
MICKROSTRIP PATCH TO WIRELESS LAN " D3  
Telecommunication Engineering Academy Telkom Jakarta.**

The purpose of making the final task is to design, create and apply the microstrip antenna with rectangular patch to be working at a frequency of 2.4 GHz.

The antenna is an inseparable part of a wireless communication system the growing popularity of wireless communication makes the need for the antenna increase, therefore it takes an antenna with a compact physical form, already to fabricated and has hig performance to be appiled to existing wireless telecommunication devices.

This antenna is made with FR4 Substrate materials with dielectric constant or  $\epsilon_r = 4.4$  loss tangent  $\tan \delta = 0.02$  and thickness  $h = 1.6$  mm with the help of Ansoft HFSS v11 Software. This antenna is expectes to be one option antenna on the future.