## ABSTRACT

*This paper presents the results of research on design and implementation of AFL trainer system that is Android based. This system serves to provide AFL operator training to a candidate in an effort to improve the safety of aircraft during flight in the approach to the runway. AFL lamp brightness level simulation using a personal computer programmed with Visual Basic 6.0 programming language, while for the simulation of the damage is technically made by the interface device CCR Simulator using ATmega16 microcontroller that supports RS-485 serial communications full-duplex. Sending data to the simulation of damage AFL lights controlled using a tablet PC with a mobile operating system Android.*

*AFL lighting design simulation system has been successfully tested to simulate the visual brightness of AFL lamps and simulate three types of damage in technically, that is low current, over current, and open circuit for the Approach lamp type.*