

## ***ABSTRACT***

*Name : Dany Dwi Jaka Sudrajat  
Study Program : Teknik Elektro  
Title : Payload Design for Atmosphere Balloon*

*Atmosphere is a gas that envelops earth and serves as a protective for life on earth and also be compressible, until the air pressure decrease according with height. Since the industrial revolution, then concentration greenhouse gases increased one of these is C. from the issue then be made a atmosphere balloon payload which serve to obtain temperature data, air pressure, and the air humidity. It also to know coordinate like height, latitude, and longitude.*

*As for the purpose of this research is to design, to make, and to analyzing data obtained from the atmosphere balloon payload as the gauge atmosphere profile vertically and horizontal, then the data is send to the ground station. Research conducted with sensor examines in the payload, and then obtained data were comparing with tool factory data to analyze.*

*In this research succeed make a atmosphere balloon payload to get atmosphere profile data vertically and horizontal which then transmitted to the ground station. From these analyzing, then get score % Error from the sensor of content used as reference that the sensor is fit for use or not.*

*Key words : Atmosphere profile vertical and horizontal, atmosphere balloon payload, sensor, ground station, % Error*