

ABSTRACT

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Solar Power Assembly and Quality control Process Alternating Current Monitoring
at PT Synapsis Sinergi Digital

PI. Mechanical Engineering. Industrial Technology Faculty. Gunadarma
University. 2023

Keywords : Connex SPMAC, Solar Cells, Quality Control, Assembly, Alternating
current, Mini PC.

(xii+28+Appendix)

In recent years, the use of solar energy (solar) as an environmentally friendly and sustainable energy source has become increasingly popular. As a Mechanical Engineer at PT. Synapsis Sinergi Digital, author in charge of the Hardware team. The author's duties include reverse engineering, 3D design, 3D printer operation, product manufacturing, assembly monitoring tools, and quality control. This apprentice program is attended to learn and develop knowledge and skills in the field of mechanical engineering. The goal is to gain a practical understanding of business practices, improve technical skills, problem solving, communication and teamwork. Through hands-on experience in the world of work, the author will gain valuable insight into industrial operations and their success factors. The process of carrying out activities consisting of preparing tools and materials then installing the fan on the PCB stand, then installing the Mainboard PCB and IO PCB on the PCB Mounting Plate, then installing the PCB Extension and Mini PC on the Mainboard PCB, then installing the Acrylic Cover on the Bottom Case, then Installing PCB Mounting Plate on the Lower Casing, then Installing Acrylic and LCD on the Upper Casing, Mounting the Upper Casing and Lower Casing, then Quality Control, and a result is obtained in the form of Connex SPMAC. And some conclusions were obtained, among others, this Connex SPMAC product can be a solution for monitoring solar panels, whether monitoring current, power and voltage. The implementation of this internship provides many benefits in terms of knowledge and practice

Bibliography (2018 – 2023)