

**IMPROVEMENT OF TOYOTA 4A-F ENGINE  
INSTRUCTIONAL TRAINER**

Design Project  
Submitted to the Faculty of the  
College of Engineering and Information Technology  
Cavite State University  
Indang, Cavite

In partial fulfillment  
of the requirements for the degree  
Bachelor of Industrial Technology

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BERNARD A. ROJAS**  
April 2014

## ABSTRACT

**BAES, LYNDON O. and ROJAS, BERNARD A., Improvement of Toyota 4A-F Engine Instructional Trainer.** Design Project. Bachelor of Industrial Technology major in Automotive Technology. Cavite State University, Indang, Cavite. April 2014. Adviser: Engr. Danielito R. Escaño.

The improvement of Toyota 4A-F engine instructional trainer was conducted in barangay Banaba Cerca, Indang, Cavite. It was tested and evaluated at the Department of Industrial Engineering and Technology, College of Engineering and Information Technology, Cavite State University, Indang, Cavite on February 4, 2014.

The study was conducted to enhance the knowledge of the students under the automotive section of the department on a higher model of carbureted engines. It also provides the students hands on experience on auto engine electrical wiring, engine diagnosis, carburetor overhauling, distributor igniter diagnosis, engine ignition timing, and set-up timing belt.

The design project consisted carbureted engine with auto engine electrical accessories. The study of instructional trainer Toyota 4A-F engine was conducted and evaluated for reliability and functionality by the panel of evaluators. The total cost of the design project was P27,738.00.