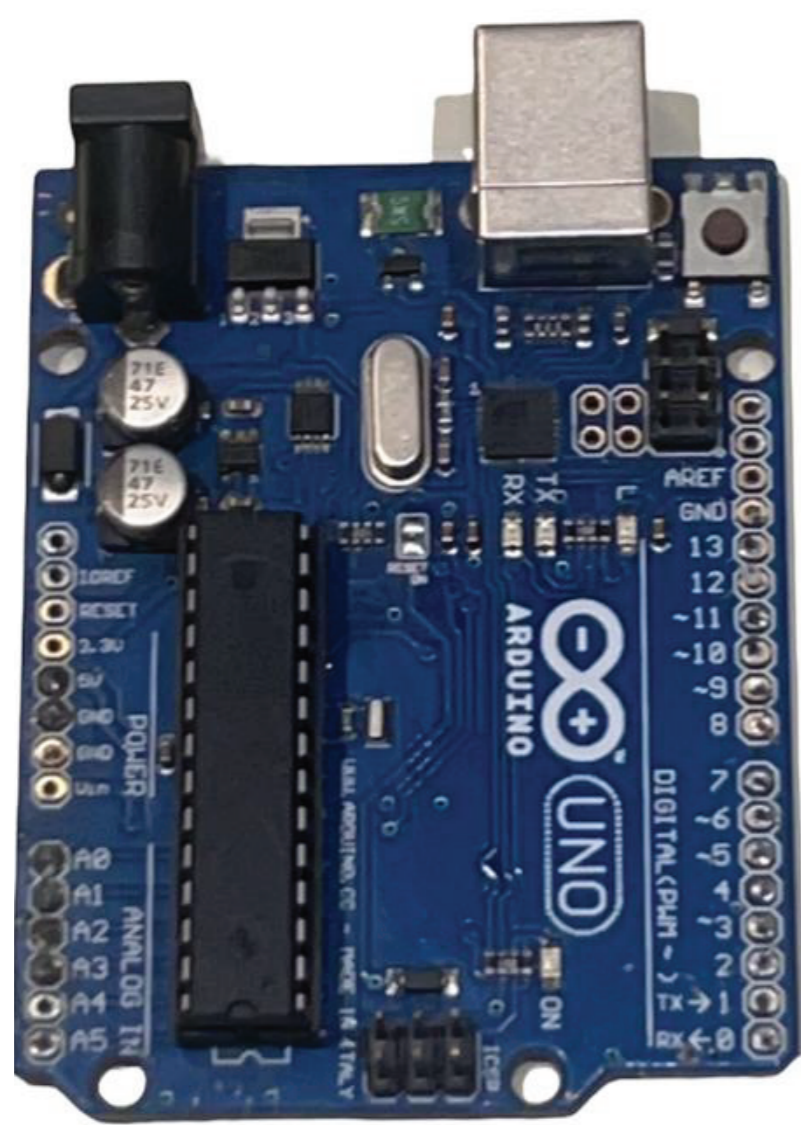


PCB Parts Recognition Using Raspberry Pi Camera & OpenCV



Abstract

In this project, we will use computer vision to identify the components of a PCB board. We will build a code with python using opencv ,a camera to do the task. Our program will detect flaws and different parts in PCB efficiently using machine learning. The proposed system can be used for real-time process of PCB parts Recognition in industries.

Introduction

Computer vision gives the capability to "see" to a computer allowing the development of complex, useful and cool applications. Applications such as face and object detection and recognition. In this project, we will use a simple PC, attached camera and a cost-free and open-source computer vision framework called OpenCV to identify the differences between PCB boards and if they are missing any equipment.

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