

SYSTEMS AND METHODS FOR AUTOMATED WELDING

ABSTRACT

An automated welding system includes a mounting platform configured to receive an object, a welding tool, an imaging device configured to acquire at least one image associated with the object, and a controller. The controller is configured to receive the at least one acquired image, analyze at least one pixel in the at least one acquired image, identify, based upon the analyzing, an area to be welded in the at least one acquired image, wherein the area to be welded includes a defect, and generate, based upon the identifying, control instructions for controlling at least one of the mounting platform and the welding tool to weld the area to be welded.

[Figure 1]