

**Customer:** NSM

**Location:** Birmingham, AL

**Time & Duration:** 8 Weeks

**Technical Description:** Robot Programming

Reference: NSM 13-284 / 1.1.1



## Problem

Robots used in a tandem press to advance metal parts, so each press can accurately and quickly stamp parts.

## Solution

Teach and optimize robots

## INP Tasks

- Big issue (Siemens) Profinet safety I/O's communication between PLC's and resets troubleshoot Profinet DCS safety.
- Check safety I/O's at robot.
- Confirmed setup of robot is ok.
- Detected error in the setup or safety PLC.
- Received information from press OEM that robot configured correctly.

## Checked:

- Safety PLC logic at the PLC and the PROFIsafe configuration at the robots.
- Profinet communication at R4, R5 and R6.
- The I/O configuration at R2, R3, R4, R5 and R6.
- The interface configuration between R1 and WIA

## Test:

- Add a new I/O for the robot.
- Testing the full auto mode at R1 and destacker.
- Include 4 sensors at the 2 tooling stands to the robot program

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