PURDUE UNIVERSITY

# RESEARCH MACHINING SERVICES WORK ORDER

RMS FORM 20 (8/12)

For RMS USE ONLY
WORK ORDER NO.

WO Creation Date:
WO Close Date:

☑ Request for estimate (When estimated, this form will be returned for approval to proceed)
☐ Approval to proceed

Department Name: School of Electrical & Computer Engineering
Customer Phone # 7657758910
(Printed) Customer Contact: Bharath Keshavamurthy
Date: 12/14/2020
Customer Contact E-mail: bkeshava@purdue.edu
Date Required: 12/21/2020
Professor Name (if applicable) Nicolo Michelusi (michelus@purdue.edu)
Completion Date:

**** Note: Check Website www.purdue.edu/dp/MachineShop/ for what account numbers are needed for proper billing.**

| **WBSE# | Business Office Approval (Print) | Phone: |
|---|---|---|
| | | |

| **Business Partner # | **Internal Order # | Business Office Approval (Sign) | Date: |
|---|---|---|---|
| | | | |

The estimated manufacturing cost indicated on this form is an **ESTIMATE ONLY** and **NOT** a firm bid. The account number shown will be charged the actual cost of the job.

Estimate of Costs _____ Signature, Research Machining Services _____ Date _____

DESCRIPTION OF WORK TO BE PERFORMED OR MATERIAL NEEDED

Structural Base Plate for Mounting the PT785-S Rotator Platform: We have the Aluminum 6061 stock material with us--already machined to the required specifications in terms of its length (12"), width (12"), and thickness (0.5"). We are now looking to drill holes through this plate for our fasteners (1/4-20 hex bolts, 3/8-16 carriage bolt, #6-32 screws). Specifically, the holes to be drilled are:
1. Four 1/4-20 UNC threaded simple holes at the four vertices of the square plate;
2. Four 1/4-20 UNC threaded simple holes in a 3" circular hub pattern around the center of the square plate;
3. Four #6-32 UNC threaded simple holes in a 3" circular hub pattern around the center of the square plate;
4. Four #6-32 UNC threaded simple holes in a 1.5" circular hub pattern around the center of the square plate; and
5. One 3/8-16 UNC threaded simple hole at the center of the square plate.

We will bring the stock material (Aluminum 6061 12"x12"x0.5" plate) and the platform to be mounted on it to the RMS facility.

CAD/CAM models are available--in case a CNC mill or a Waterjet is chosen as the machining equipment.

Manual drilling of the holes is also fine: sketches are available for the bolt patterns.

Picked Up By: _____