

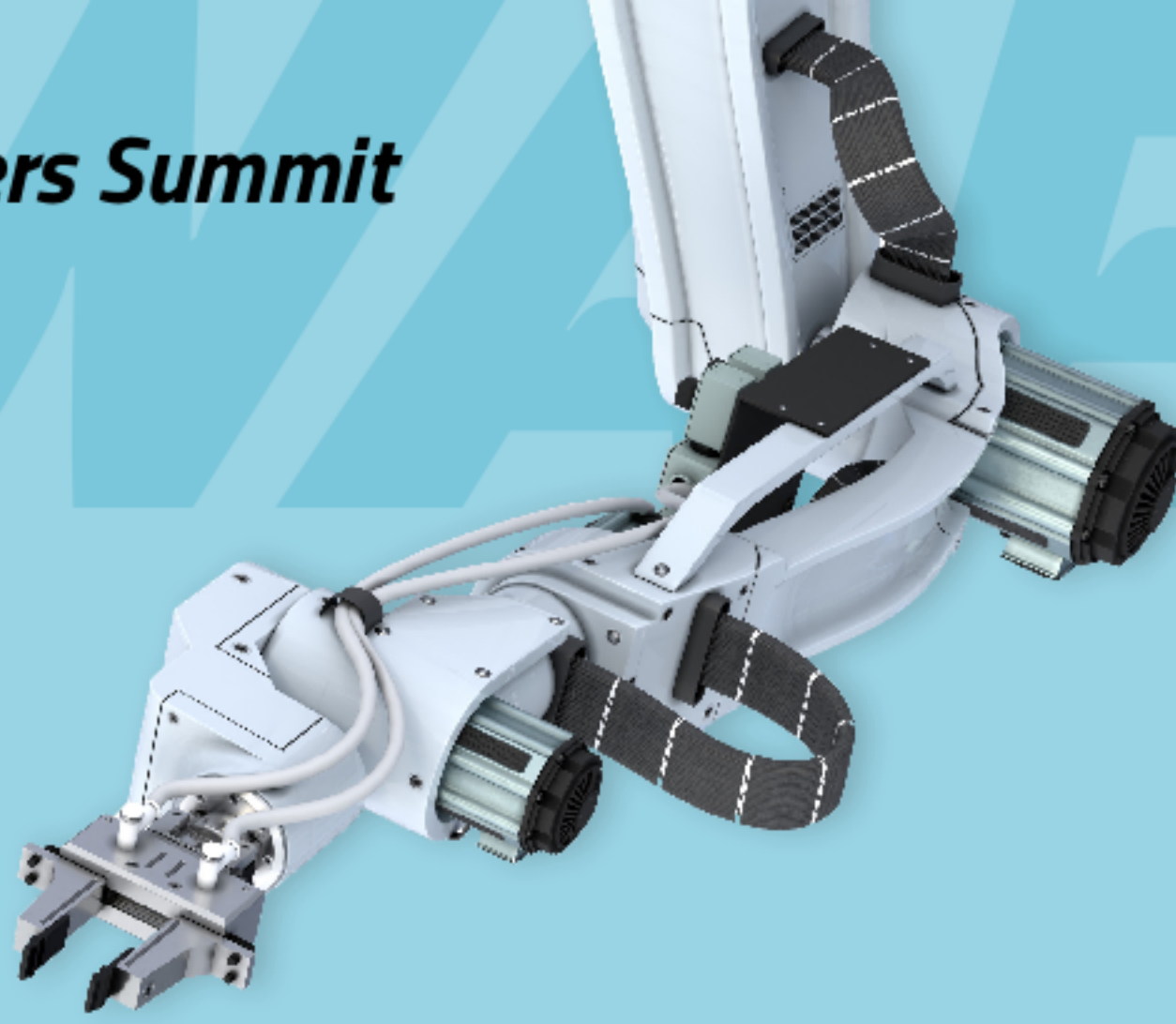
# FUTURE FORWARD

Disrupting in a Time of Uncertainty

MAY 11-13, 2021

NMMS 2021  
NATIONAL MBE MANUFACTURERS SUMMIT

MINORITY BUSINESS DEVELOPMENT AGENCY  
ADVANCED MANUFACTURING CENTER  
U.S. DEPARTMENT OF COMMERCE  
Operated by Georgia Tech



## Overcoming Disruption

# HOME DEPOT - 3D PRINTED RAPID PROTOTYPING PROJECT

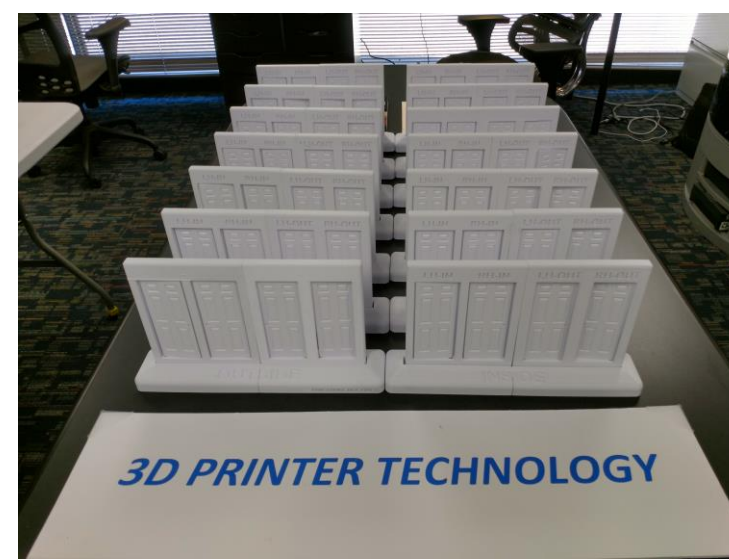
### Problem

- HOME DEPOT CUSTOMERS RETURNING DAMAGED INTERIOR DOORS DUE TO INCORRECT DOOR SELECTION
- NEED TO REDUCE THE NUMBER OF RETURNS AND SAVE THE COMPANY TIME AND MONEY BECAUSE OF DAMAGED DOORS
- NEED FOR A CUSTOMER FACING VISUAL TOUCH SALES TOOL TO ASSIST THE HOME DEPOT SALES REP AND CUSTOMERS IN SELECTION OF THE PROPER INTERIOR DOORS
- DESIGN A PHYSICAL MODEL TO BE USED FOR A PILOT PROJECT FOR 100 STORE LOCATIONS IN NORTH AMERICA TO IMPROVE CUSTOMER SATISFACTION
- NEED TO MANUFACTURE MODELS UTILIZING A COST EFFETIVE SOLUTION THAT WOULD SAVE TIME AND MONEY VS TRADITIONAL MORE EXPENSIVE MANUFACTURING PROCESSES

#### INTERIOR & CLOSET DOORS



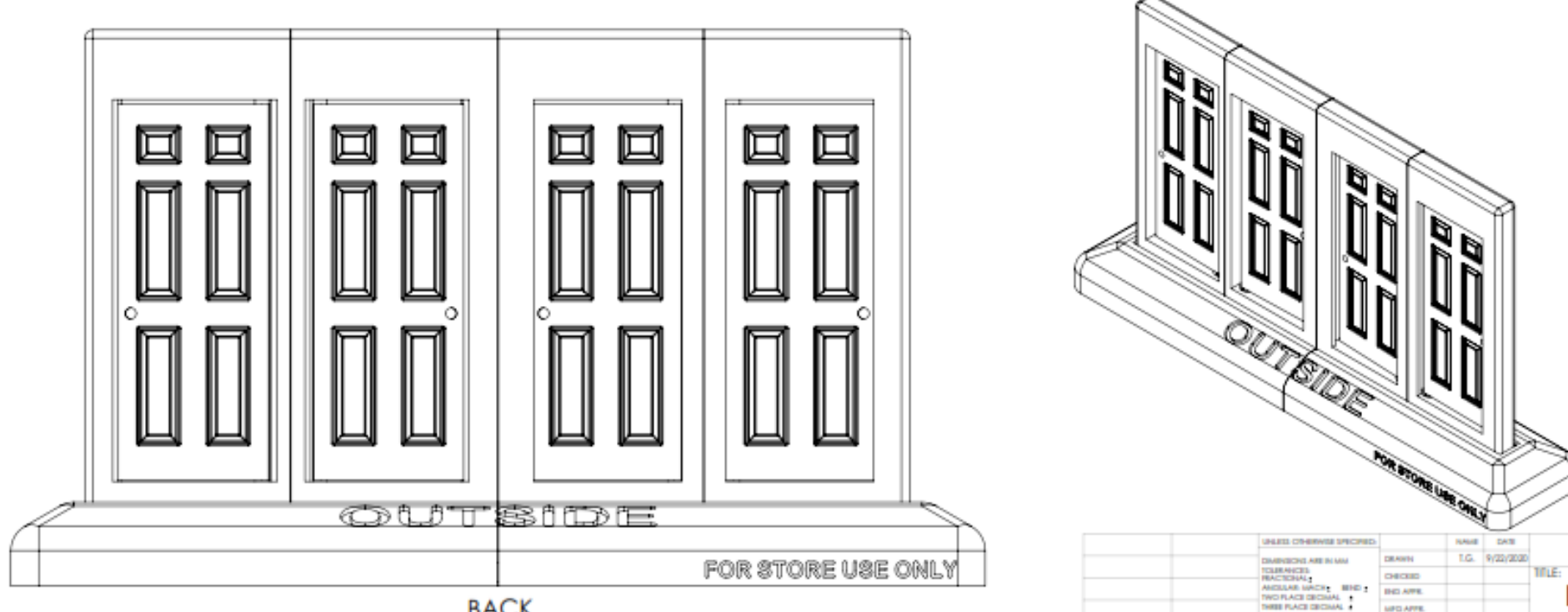
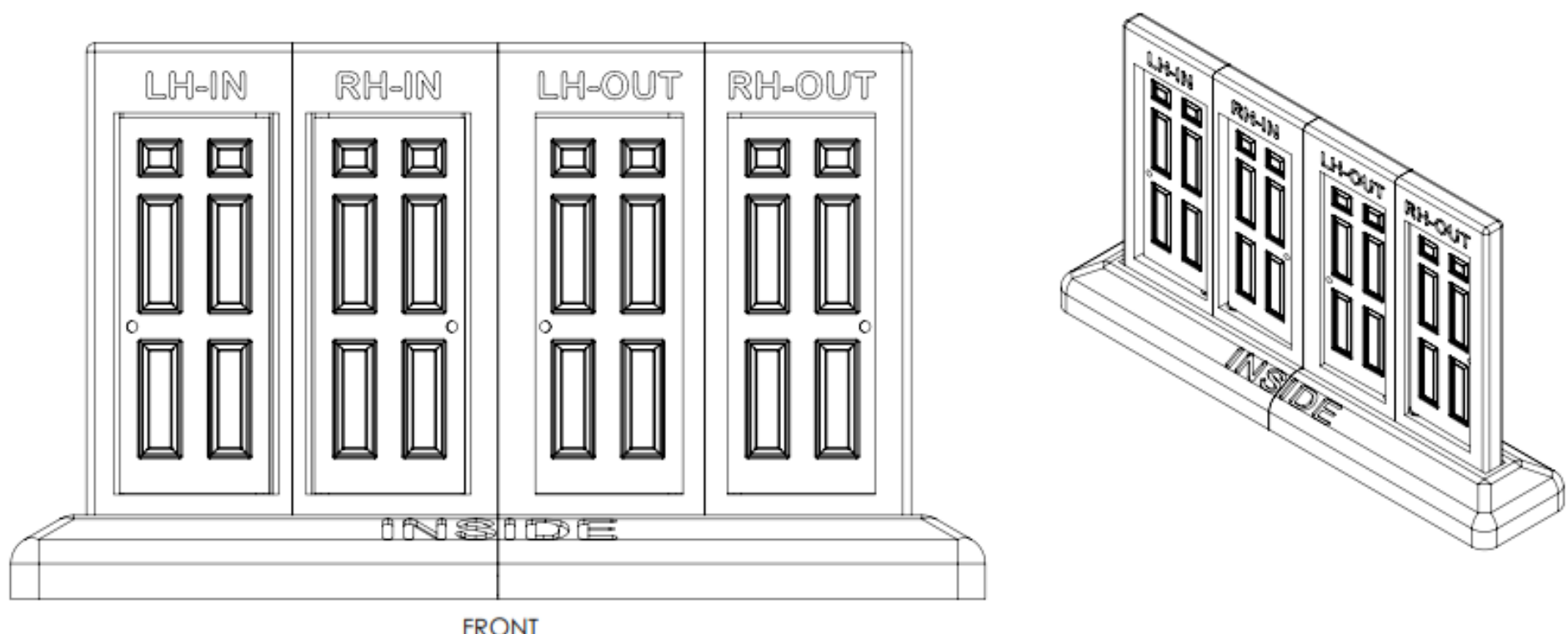
### Process



- CONSULTED WITH HOME DEPOT AND R.R. DONNELLEY MARKETING TEAM TO DESIGN A DOOR MODEL THAT COULD BE MANUFACTURED WITHOUT THE COST OF EXPENSIVE TOOLING AND INJECTION MOLDING EQUIPMENT TO GET THE DETAIL REQUIRED FOR THE MODELS
- DESIGNED MODEL WITH SOLIDWORKS CAD SOFTWARE TO 3D PRINT PROTOTYPES FOR HOME DEPOT TO REVIEW AND APPROVE BEFORE DEPLOYMENT AT 100 LOACTIONS
- SET UP A 3D PRINTING FARM TO RAPIDLY MANUFACTURE THE DOOR MODELS TO BE SHIPPED WITHIN THE TIME FRAME REQUIRED FOR THE PROJECT

### Solution

INSIDE / OUTSIDE – RIGHT HAND / LEFT HAND  
DOOR FRAME MODELS WITH MOVABLE DOORS AND DOOR KNOB  
LOCATIONS TO SHOW DIRECTION AND DOOR HINGE / FRAME LOCATIONS



Display	REV 2
DATE	11/18/2020
SCALE	1:1
SHEET	1 OF 1

### Our Company



3D PRINTER TECHNOLOGY  
ADDITIVE MANUFACTURING LABS

- 3D PRINTER TECHNOLOGY / ADDITIVE MANUFACTURING LABS HAS BEEN PROVIDING COST EFFECTIVE AND INNOVATIVE SOLUTIONS TO THE MANUFACTURING COMMUNITY AS WELL AS THE AEROSPACE AND DEFENSE MARKETS. WE UTILIZE METAL AND VARIOUS THERMOPLASTIC 3D PRINTING TECHNOLOGIES AT OUR LAB LOCATED IN ATLANTA, GA. [www.3dcadprinter.com](http://www.3dcadprinter.com) 404-556-8828
- OUR CORE CAPABILITIES INCLUDE: CAD DESIGN, REVERSE ENGINEERING, PRODUCT DEVELOPMENT, 3D SCANNING AND RAPID PROTOTYPING SERVICES
- WE HAVE OVER 12 YEARS OF EXPERIENCE IN THE ADDITIVE MANUFACTURING INDUSTRY AND PROVIDE SERVICES WORLDWIDE FOR OUR CUSTOMERS.
- XEROX CORPORATION IS PARTNERING WITH US TO HELP THEM SELL THEIR NEW LIQUID METAL 3D PRINTER

### Our Customers

