

INNOVATION - WE ALWAYS FIND A BETTER WAY

INNOVATION MONTHLY RECOGNITION

July 2022



MONTHLY RECOGNITION

“What can we change to make things / processes / products better?”



PROJECT:

**Magnetic Door Sensor
MP Installation
Template**

TEAM:

- Charles Tsien
- Eric Moran
- Joe Vang
- Vita Wei
- Michael Nguyen
- Dino Kuo

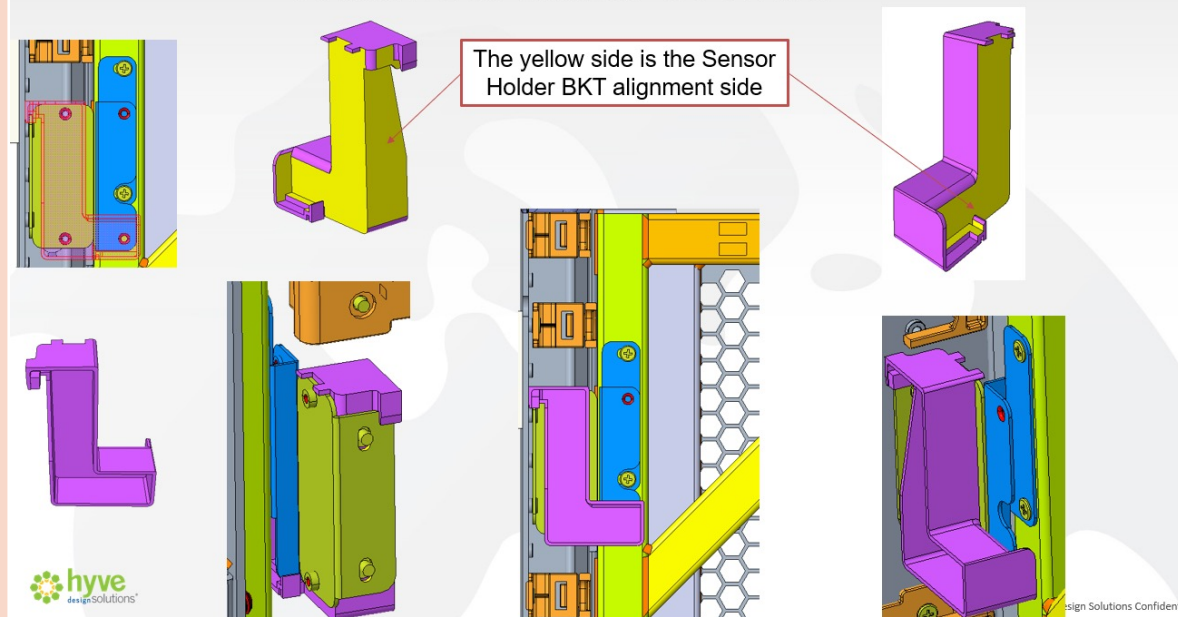
Magnetic Door Sensor MP Installation Template

Baldr19 and Magnus programs have 8 magnetic door sensors that required specific operating air gap to be in a ready state. During NPI rack build, it took anywhere from 30 minutes to 1 hr. to manually adjust these door sensor's height and operating air gap in order to be in a ready state mode. This is not a practical method/process for mass production build. Team has designed an installation guide template to allow operators to mark and install the magnetic sensor at the specified height and operating air gap.

	Teamwork	Company Impact	Customer Delight	Comments
	H	H	H	High value/impact which supports faster build time in MP floor which in turns produces more racks for customers and saves labor costs for Hyve
Team Members:	Charles Tsien, Eric Moran, Joe Vang, Vita Wei, Michael Nguyen, Dino Kuo			

- Repeatable installation locations
- Reduce the amount manual adjustment / rework
- Reduce build time

Front Door Sensor-OPT1 JIG



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PROJECT:

**Using Our Own
Servers for Thermal
Simulations**

TEAM:

- Chris Ferrin
- John Wallerich
- Henry Neynavae
- Sam Huang

Using Our Own Servers for Thermal Simulations

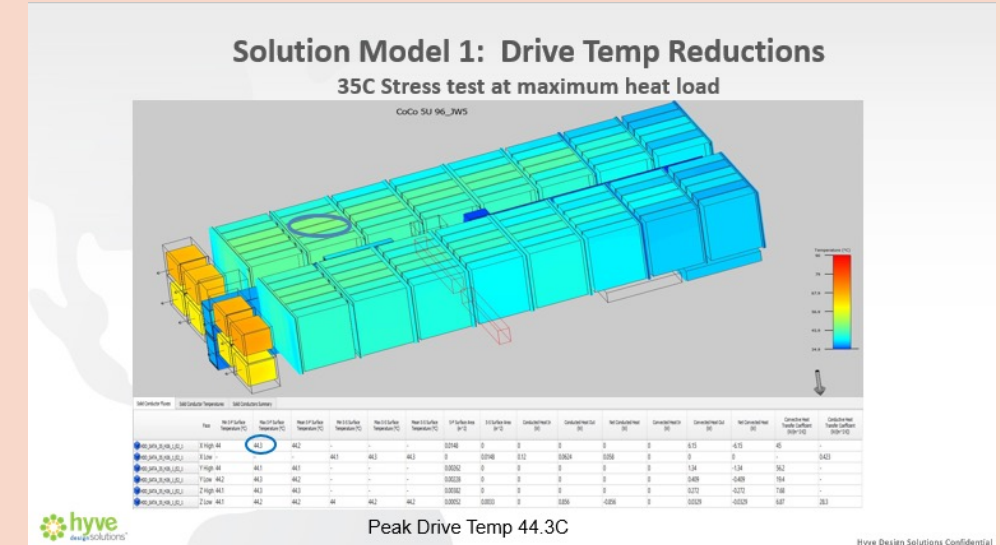
Month: July 2022

Nominator: Jay Shenoy

We are designing complex systems and the CFD run times were going into 6-8 hours. It turned out that the servers we were using are 6 years old and 20 cores, and we also had only 2 servers but 3 (expensive) CFD software licenses. In possibly the first instance of eating our own dogfood, this team decided to test run the CFD software on Hyve made servers.

	Teamwork	Company Impact	Customer Delight	Comments
	M	H	M	While CFD simulations happen many times “behind the scene” they are a key step in our development process.
Team Members:	Chris Ferrin, John Wallerich, Henry Neynavae, Sam Huang			

- Hyperscale servers are inexpensive, the one under test is just around \$4K for a 48 core CPU
- We expect a 2-3X faster simulation run time, some simulations are taking 6+ hours today. Testing is in progress
- An OEM server of a similar configuration is over \$15K and we need 3
- We started testing with a lab system. Involved modifying BIOS settings and some tweaks to run Windows OS on our servers. In Hyperscale people usually run only Linux
- But besides the cost involved, speed is a key aspect, all of this was done in just over a week from start



This simulation took 6+ hours

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“What can we change to make things / processes / products better?”



PROJECT:

**Electronic QC Check
List**

TEAM:

- Praful Fadadu
- Nathan Myers
- Thomas Sutton
- Fred Liu

Electronic QC Check list

Month: July 2022
Nominator: Ford Wang

Per customer quality team request, the QC station should check all components in the shop floor system, not to only show a single Pass/Fail result. Quality team setup an Electronic Check List and IT team implemented into shop floor system.

	Teamwork	Company Impact	Customer Delight	Comments
	H	H	H	Collaboration with customer and cross function teamwork was required to make QC Electronic Check List check and implement into computer system.
Team Members:	Praful Fadadu, Nathan Myers, Thomas Sutton, Fred Liu			

- Integrate current manual QC Checklist and recording process into CIS. Integrate with QC inspection screen and add validation to flag/prevent
- Downstream process to continue only if QC checklist final status is Pass
- Display QC check list with content, pass/Fail status (Phase I); Add images (Phase II)
- Track Time stamp and QC operator id (systematically)
- Export to excel capability is not required - No printing
- QC Checklist template will be maintained by Quality team
- Configurable solution to Platform level (accommodate any platforms, programs, customers)
- Allow screen to check pass or fail status, save inspected records and revisit to update status
- Add validation/stop server to continue next process (from ServerQC), until check list completed with all Pass status
- Server Failed cases – Send to Repair or send to trouble shoot
- Link Pass or Fail status to QC Inspection screen

The left screenshot displays the 'Entry Inspection Info' form. It includes fields for 'Inspection Date' (12/20/2021 22:12:56), 'Inspector' (Covad), 'Inspection Type' (2nd FQC), 'Classification' (Please Select), 'Server Issue' (Please Select), 'Rack Issue' (Please Select), 'Other Issue' (Please Select), 'Description of Issue (e.g. Location, Findings, etc.)', 'Action Taken' (Please Select), 'Entry Date' (12/20/2021), and 'Notes'. There are 'Hold' and 'Release' buttons at the bottom.

The right screenshot shows a table of inspection results. The table has columns for 'Item', 'Description', 'Pass', and 'Fail'. It lists 16 items, each with a description of the inspection point and corresponding Pass/Fail status.

Thank you!



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