

## **Speakers**



Mara Pillott
Application
Engineering Manager
Inductive Automation



Reese Tyson
Sales Engineer III
Inductive Automation



Annabelle Haley
Educational
Engagement Program
Specialist
Inductive Automation

## **Agenda**

- Speaker Introductions
- Intro to Inductive Automation
- About the Educational Engagement Program
- The Student Build-a-Thon Project
- Q&A





## **About Inductive Automation**







Johnson-Johnson









Chobani.











**FUJ!FILM** 



Crate&Barrel













# The Unlimited Platform for SCADA and So Much More

- Connect, Design, Deploy Without Limits:
  - One central hub for everything on the plant floor
  - Create any kind of industrial application
  - Web-deploy clients to desktops, industrial displays
     & mobile devices

- Unlimited licensing
- · Industrial-strength security and stability
- Trusted by thousands of companies worldwide



# Educational Engagement Program

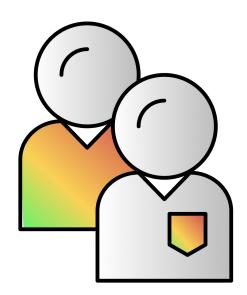
## **Program Contacts**

#### **Annabelle Haley**

**Educational Engagement Program Specialist** 

#### **David Grussenmeyer**

Industry and Education Engagement Manager



General Inquiries - edengagement@inductiveautomation.com





## **Program Background**

#### Launched January 2020

#### **Vision Statement**

 To foster relationships in our local, national, and global communities by creating a bridge between industry professionals and educational institutions, promoting creativity and innovation through meaningful educational experiences with Ignition.

#### Goal

 To get Ignition into the hands of as many students as possible.



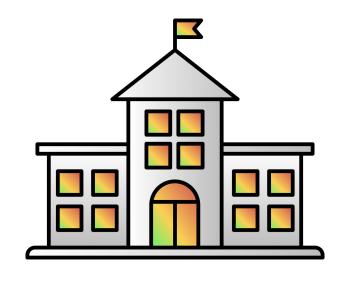




## **Participating Institutions**

## We have added over 50 new educational organizations just this year!

- Nearly 300 educational organizations using Ignition
- 30+ countries with Ignition in academics
- Over 15 different academic programs
- 20 different educational research projects ongoing







## **Program Benefits**



**Educational Licensing** 



Sales Engineering Support



Curriculum Material



**Industry Connections** 



Free Certification Tests



Active Communication & Guidance





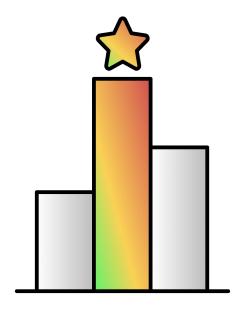


## Student Build-a-Thon Competition

## **Competition Background**

## We couldn't let integrators have all the fun!

- Competition held remotely from Friday, April 25th to Monday, April 28th. Only 72 hours to build!
- Teams made up of 1-4 students actively enrolled in an academic institution
- One team member credentialed in Inductive University
- Project documents were sent out on Friday, with a twist specification sent out Sunday morning
- Tasked with building an interface for an automated fast food restaurant





## **Competition Results**

## Winning Team

- Clovis Crush from Clovis Community
   College in Fresno, California
- Team: Benjamin Shigeto Hallaway,
   Gurkaran Singh Sandhu, and Robert Voss,
- Faculty Sponsor: Matthew Graff

#### **Runner-Up**

- Ignite from University of Kentucky in Lexington, Kentucky
- Team: Daniel Rodriguez
- Faculty sponsor: Jens Hannemann.



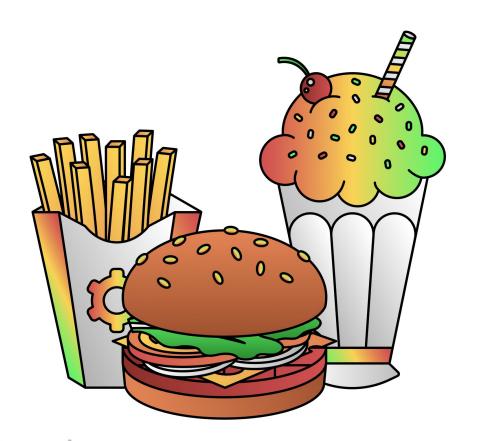
## Time for a technical deep dive on the winning project!





## **Project Details**

- Fast Food Startup Theme
- 1 Project
- 5 pages
  - Order Interface
    - Burgers
    - Fries
    - Shakes
  - Inventory Management
  - Alarming
  - Trending
  - Navigation
- UDTs were provided







## **A** Twist

- Revenue Tracking
  - Sum revenue across all orders
  - Display and reset on Inventory Management





## **Project Demo**





## **Judging**

- 20% Order Interface
- 15% Inventory Management
- 10% Trending
- 10% Alarming
- 10% Design and Color Scheme
- 5% Mobile Responsiveness
- 10% Security and User Role Configuration
- 10% HMI Operability and Maneuverability(UI)
- 10% The Twist



Clovis Crush team scored a 24.5 points out of a possible 27!





## **Judging: Order Interface**

#### **Points: 10/10**

#### Core Functionality

- Process for ordering
- Visualizing process for making the food
- "Let's Eat!" button to reset the order screen
- Cost appropriately changes based on selection

#### Additional Features

- Images for the food
- Inventory checks
- Easy to use UI







## **Judging: Inventory Management**

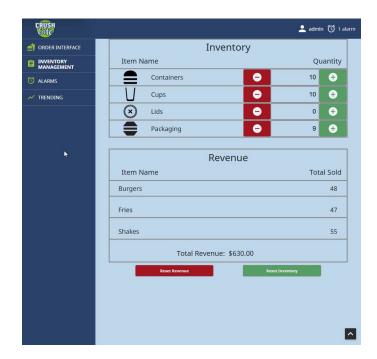
**Points: 10/10** 

## Core Functionality

- Ability to edit inventory of items
- The Twist Added all revenue items successfully

#### Additional Features

- Icons used for inventory items
- Excellent use of grouping with border
- Easy to use UI





## **Judging: Alarming**

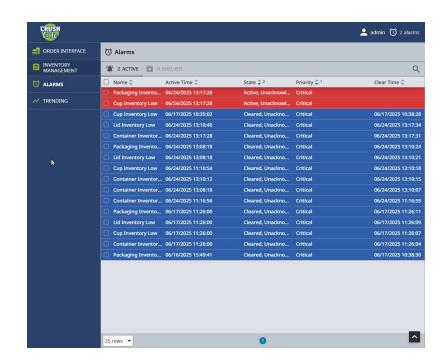
**Points: 10/10** 

## Core Functionality

- Alams set and visualized on each inventory tag
- Ability to interact with alarms
- Alarm Status Table takes up whole page

#### **Additional Features**

 "Clear Time" added to columns on table







## **Judging: Trending**

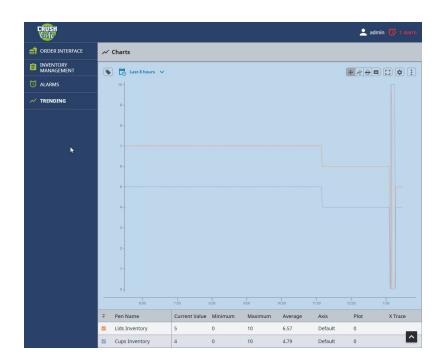
**Points: 10/10** 

## Core Functionality

- Initializes with Cup and Lid Inventory levels
- Power Chart takes up whole page
- Have ability to add and remove other trends

#### **Additional Features**

Updated Pen name from the default tag path







#### **Points: 9/10**

#### Core Functionality

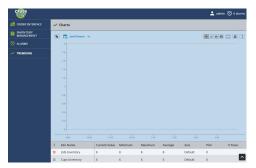
- Aesthetics
- Logo and Branding
- Intentional Design Features

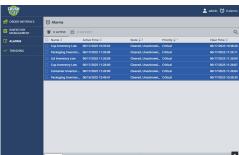
#### Additional Features

- Functional Colors
- Icons
- Tool Tips
- Style Classes







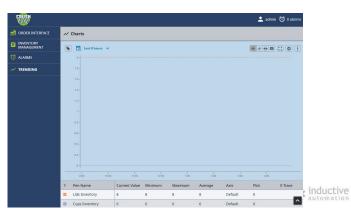


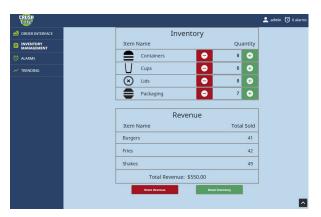


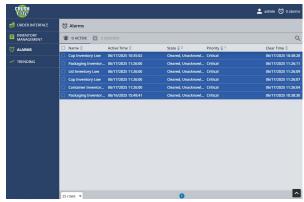


#### **Overall Aesthetics**









## Branding and Logo

- Consistent Brand Color
- Logo



## Intentional Design

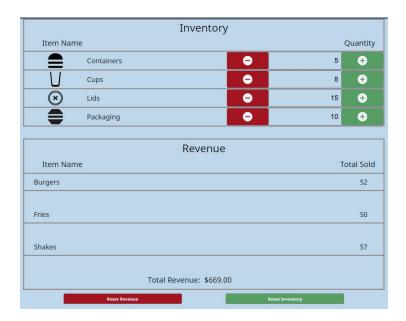
Grid layout

#### Additional Features

- Functional Colors
- Icons

#### Missing

- Tool Tips
- Style Classes







## **Judging: Mobile Responsiveness**

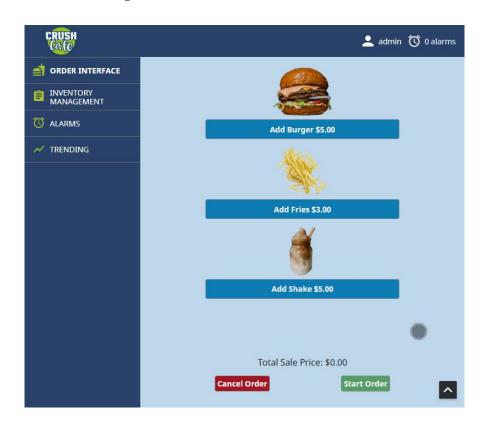
**Points: 10/10** 

#### Core Functionality

• Views are responsive

#### **Additional Features**

- Views remain user friendly
- Wrapping used where needed
- Hidden Menu



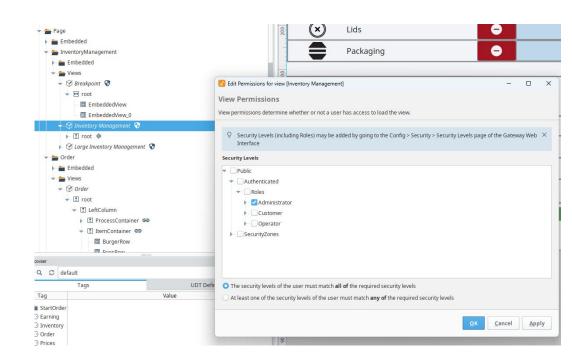


## **Judging: Security and Roles**

**Points: 5/10** 

## Core Functionality

- Roles Configured
- Access is restricted according to role



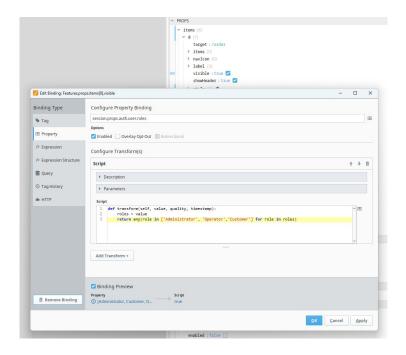




## **Judging: Security and Roles**

#### **Role Based Security**

- Hide or disable
- View Permissions







## **Judging: The Twist**

**Points: 10/10** 

## Core Functionality

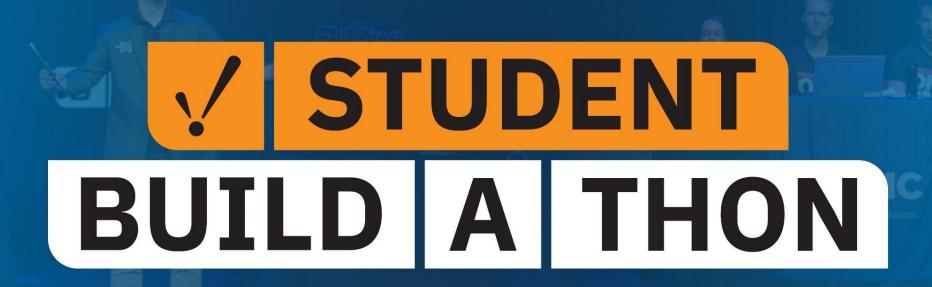
Revenue Tracked Accurately

#### Additional Features

Separated by item







Curious about the project specification? Check it out on the Ignition Exchange!

# Ignition

## Ready to Try Ignition for Yourself?

Download the full version for free at: inductiveautomation.com



inductiveuniversity.com

Ignition User Manual also available at:

docs.inductiveautomation.com



A New Era For Ignition, Its Community, and Its Conference!

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Contact International Distribution Manager Yegor Karnaukhov at: ykarnaukhov@inductiveautomation.com

## **Questions & Answers**



Call us at: 800-266-7798 Email us at: accountservices@inductiveautomation.com



For Inductive Automation Australia, call: 1300 10 8088

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