

2016 Hardware Competition Rules



IEEE REGION 3

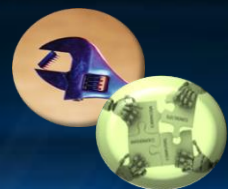
2016 SoutheastCon Conference

Dr Vukica Jovanovic - v2jovano@odu.edu



IEEE Hampton Roads Section

Norfolk, Virginia @ Norfolk Waterside Marriott
31 March - 3 April 2016



Facebook Page

<https://www.facebook.com/groups/SouthEastCon2016HardwareCompetition/>



**Region 3
Hampton Roads Section**

SouthEastCon 2016 Hardware Competition

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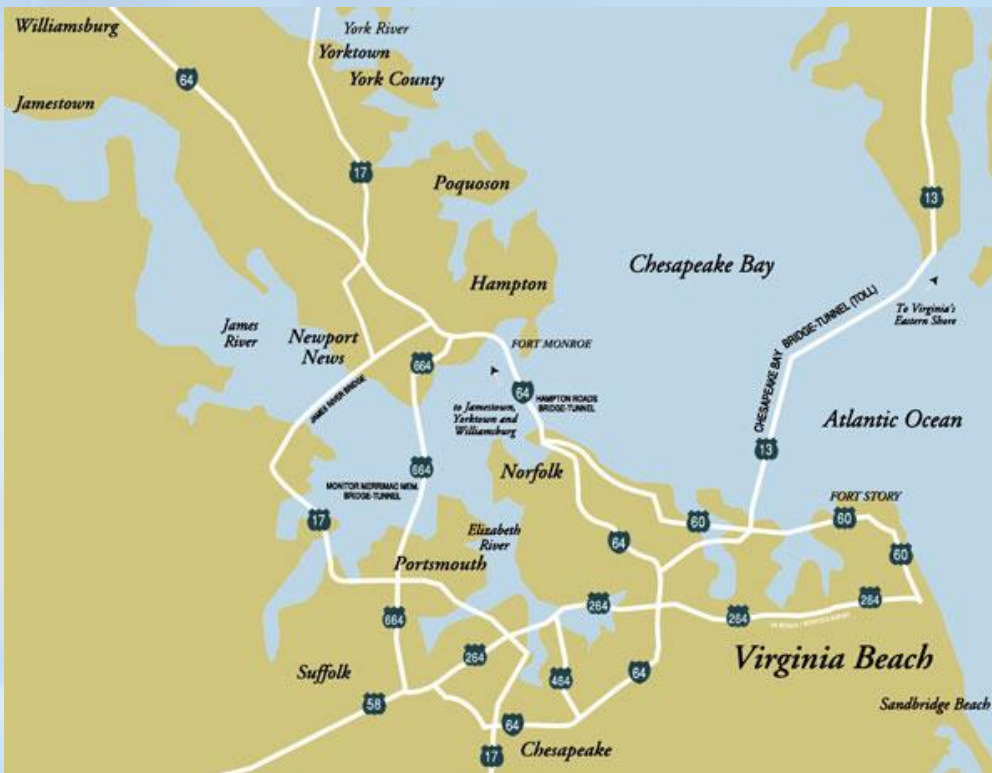
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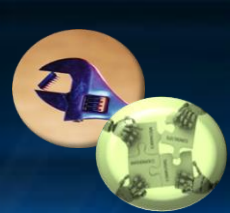


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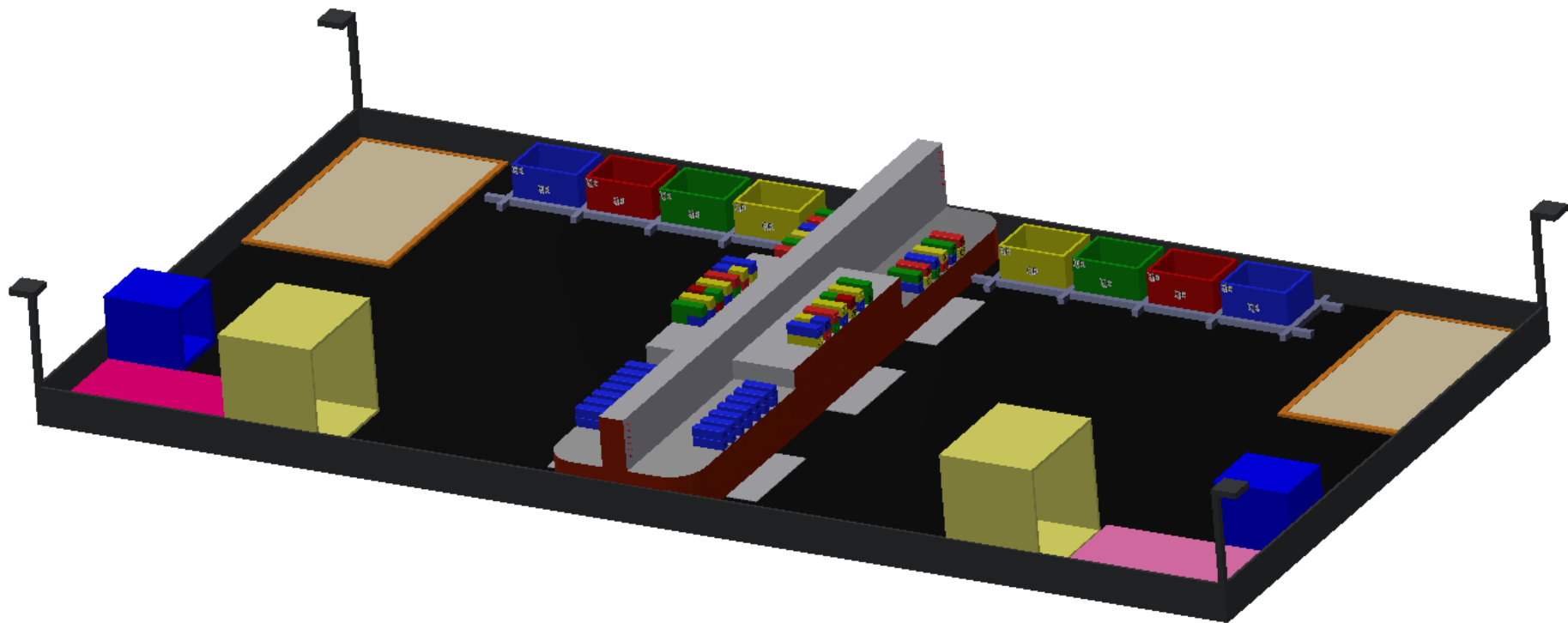
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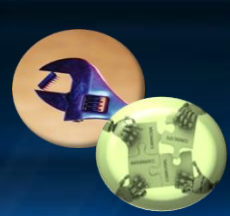
Hampton Roads Shipping Container Terminal Challenge





Challenge





3 Shipping Areas



Boat Zone

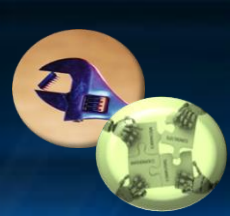


Rail Zone



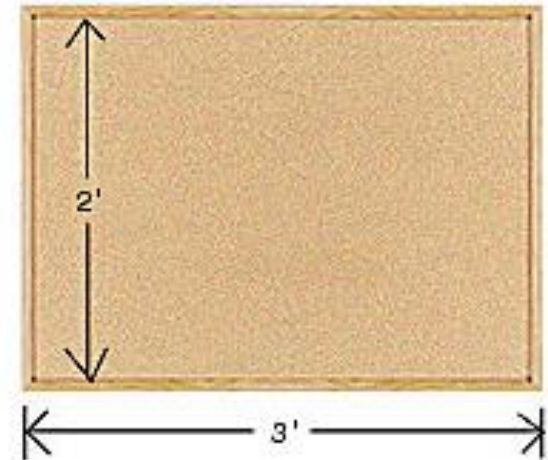
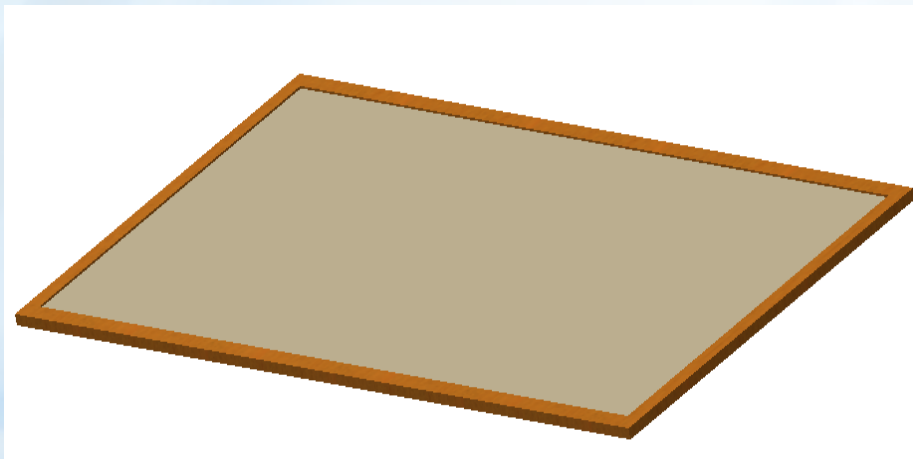
Truck Zone

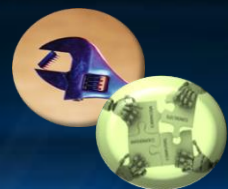




Boat Zone

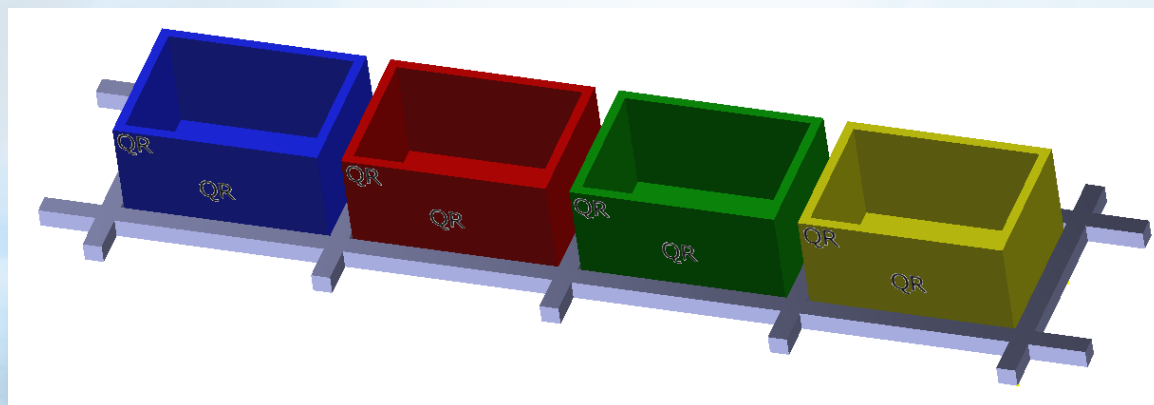
- Office Depot's "[Quartet® Economy Corkboard, 24" x 36", Natural Cork Board, Oak Frame](#)", 24" x 36", Item # 489740.

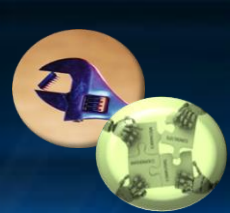




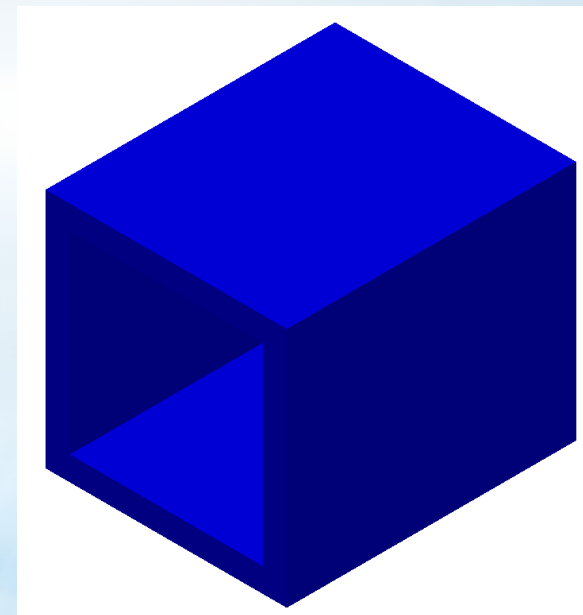
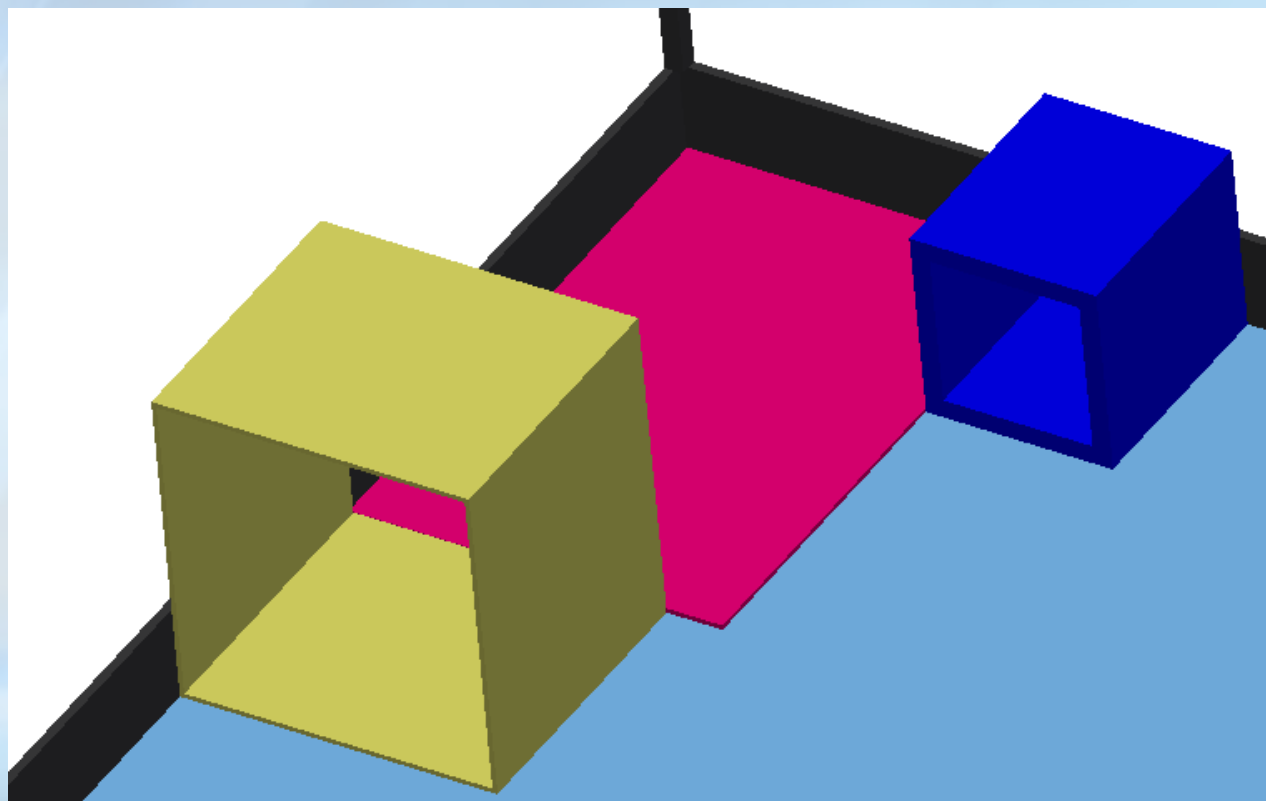
Rail Zone

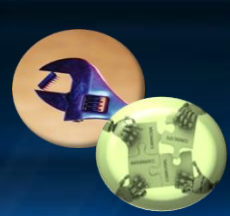
- The buckets will have QR code on them with one of the appropriate words “blue”, “yellow”, “red”, or “green”
- The walls are 0.5 in thick; 10.75" L x 7.75" W x 5" H
- The bucket position will be randomized
- Fixed, cannot be moved during the competition
- Painted plywood



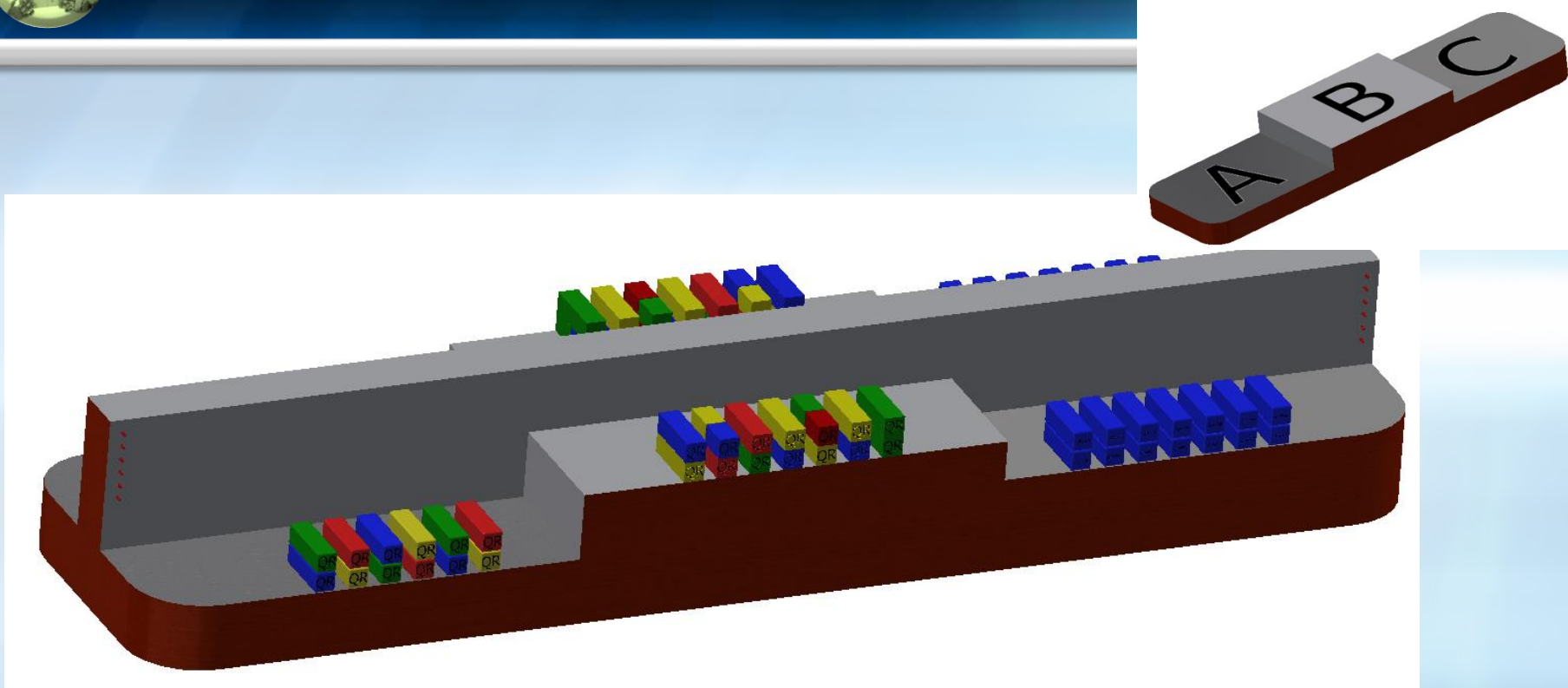


Truck Zone





3 Kinds of Shipping Goods

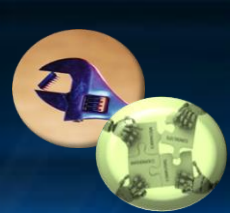


QR Codes
2 Sizes

QR Codes
Same Size

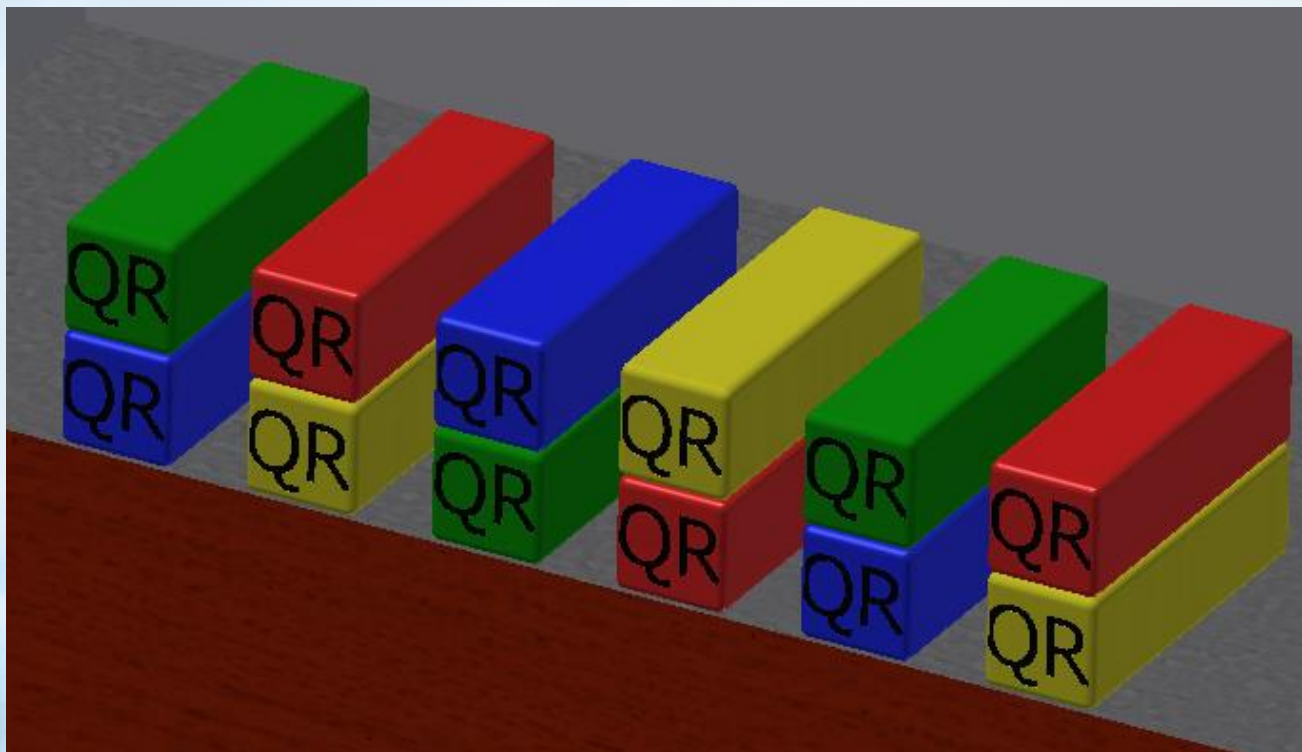
Generic

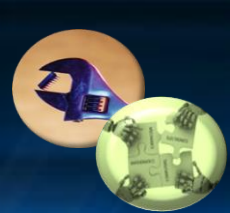




QR Codes - 1 Size

1.5 in x 1.5 in x 5 in



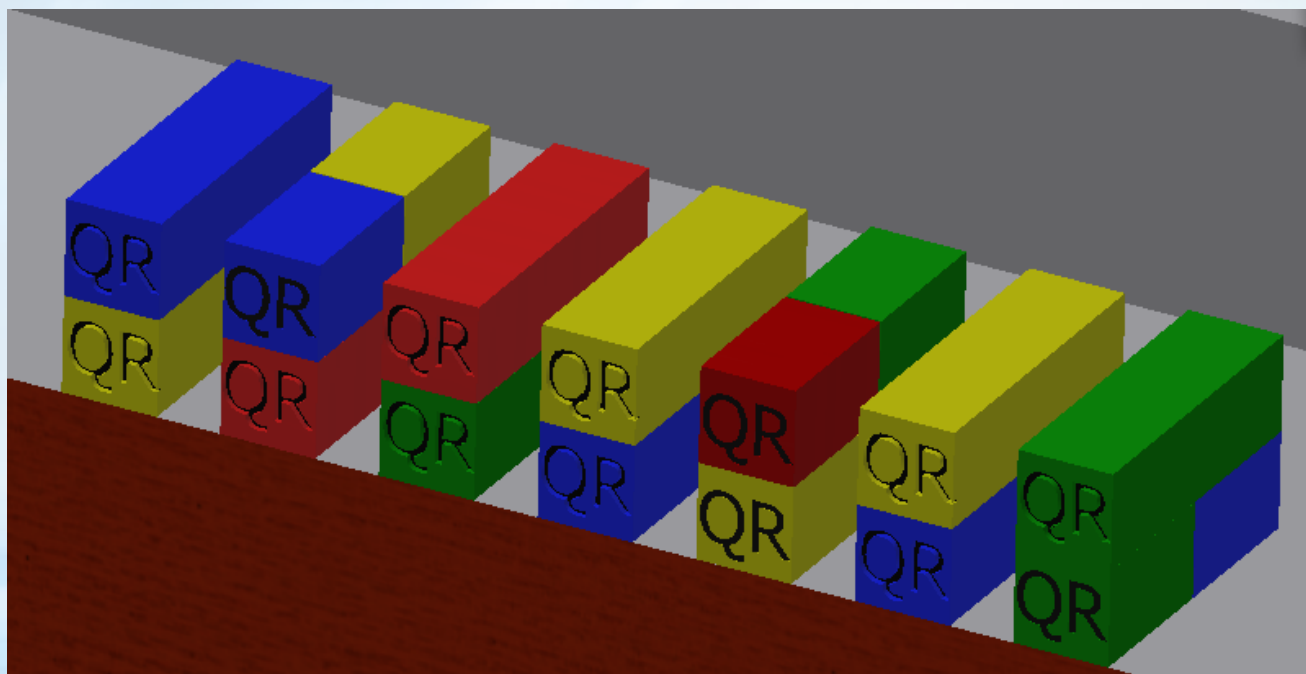


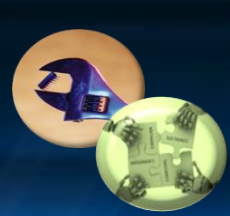
QR Codes - 2 Sizes

1.5 in x 1.5 in x 5 in

&

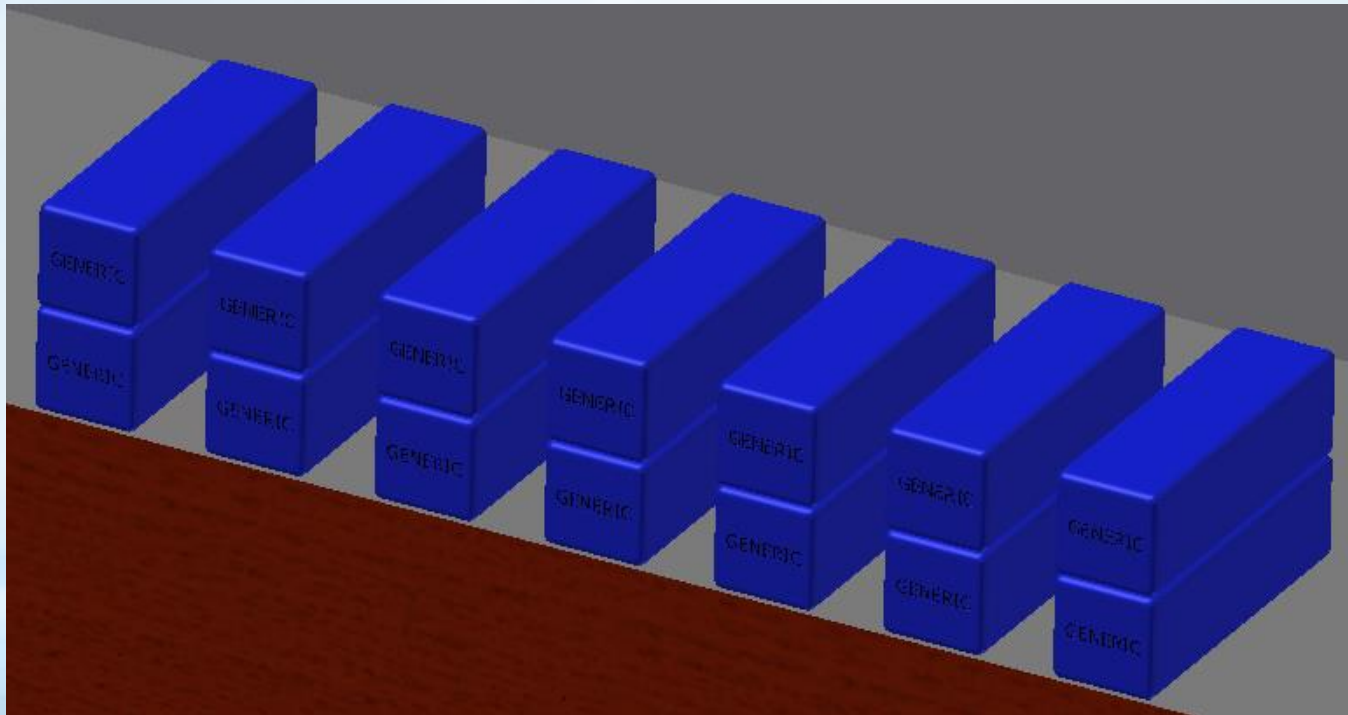
1.5 in x 1.5 in x 2.5 in

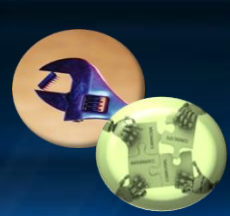




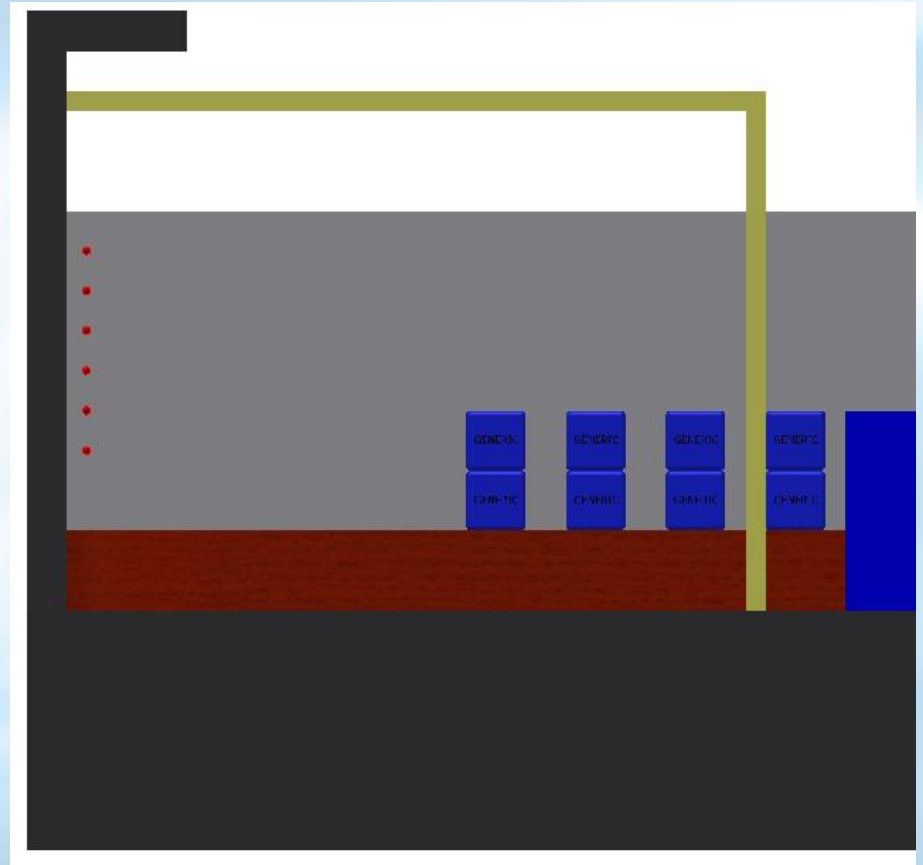
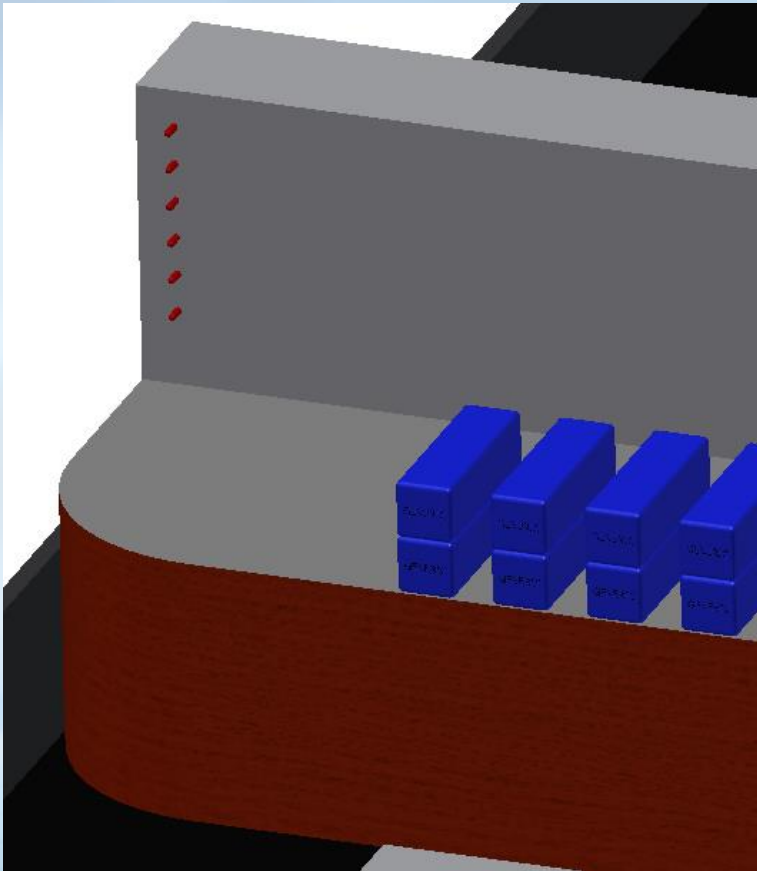
Generic

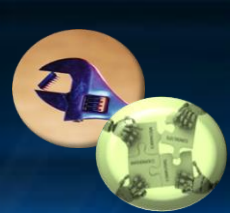
1.5 in x 1.5 in x 5 in



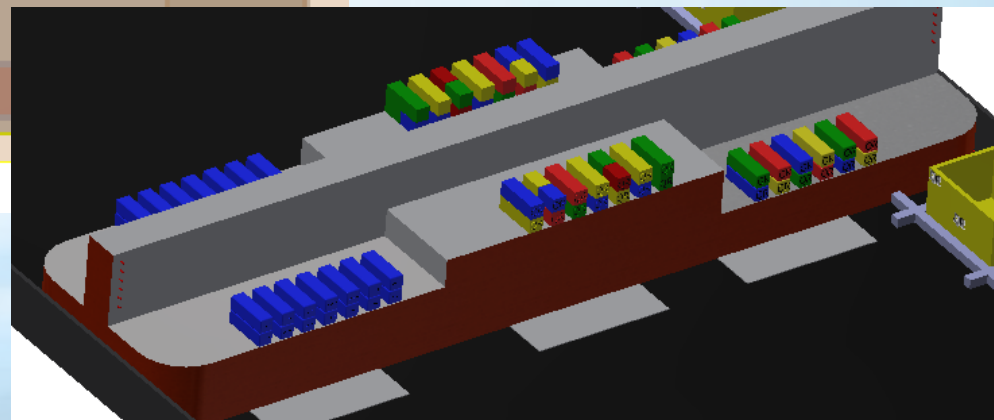
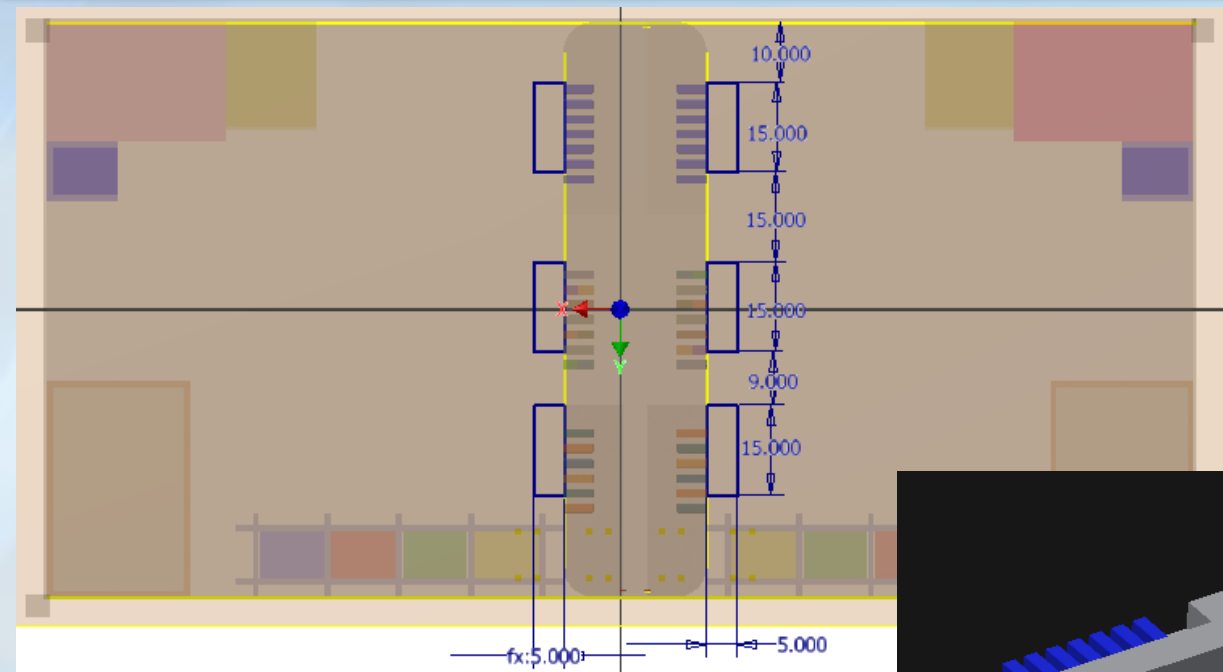


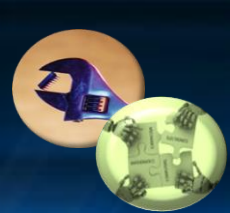
Navigation LEDs



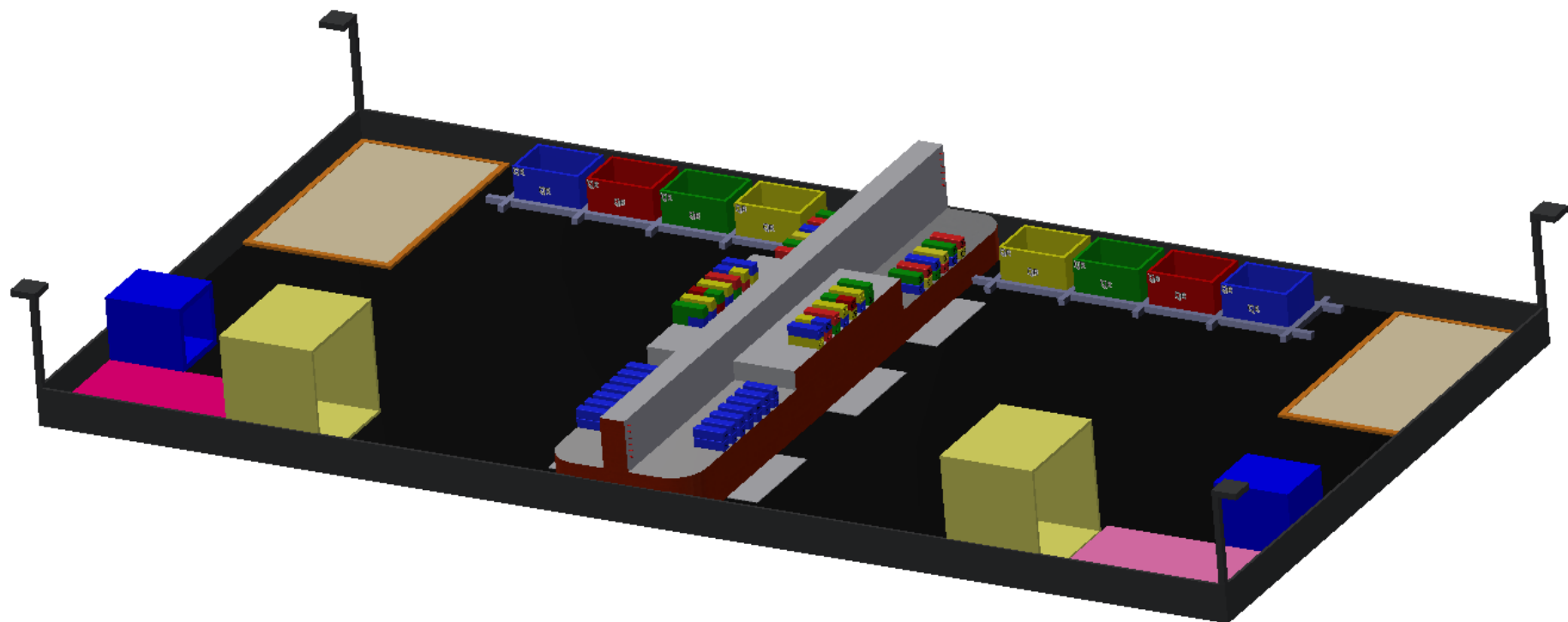


Navigation Zones



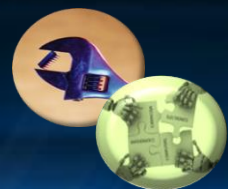


Challenge



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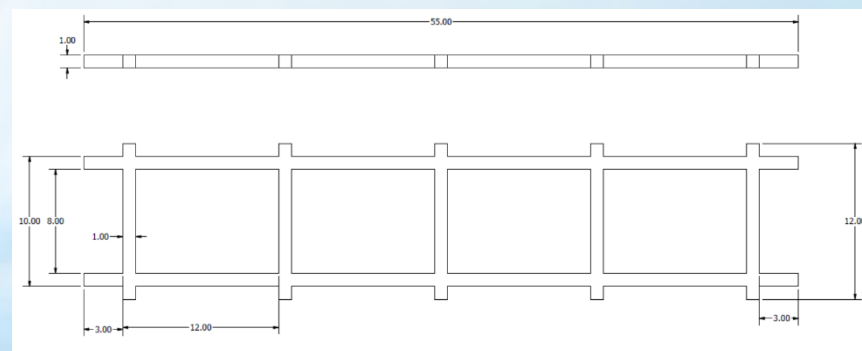
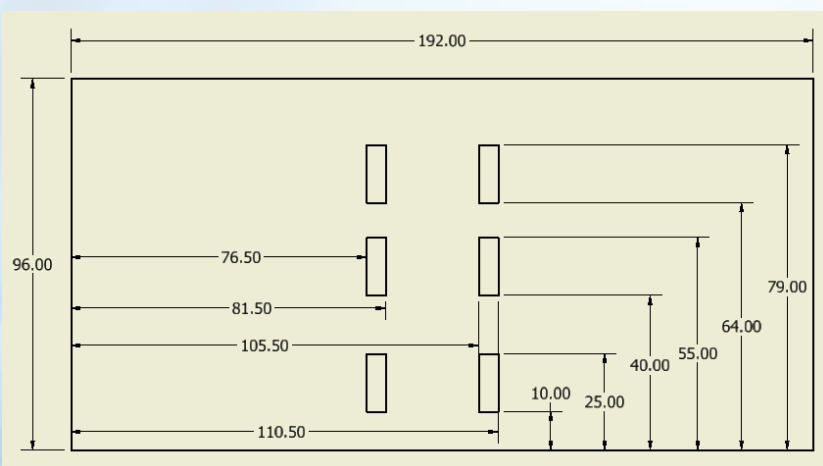
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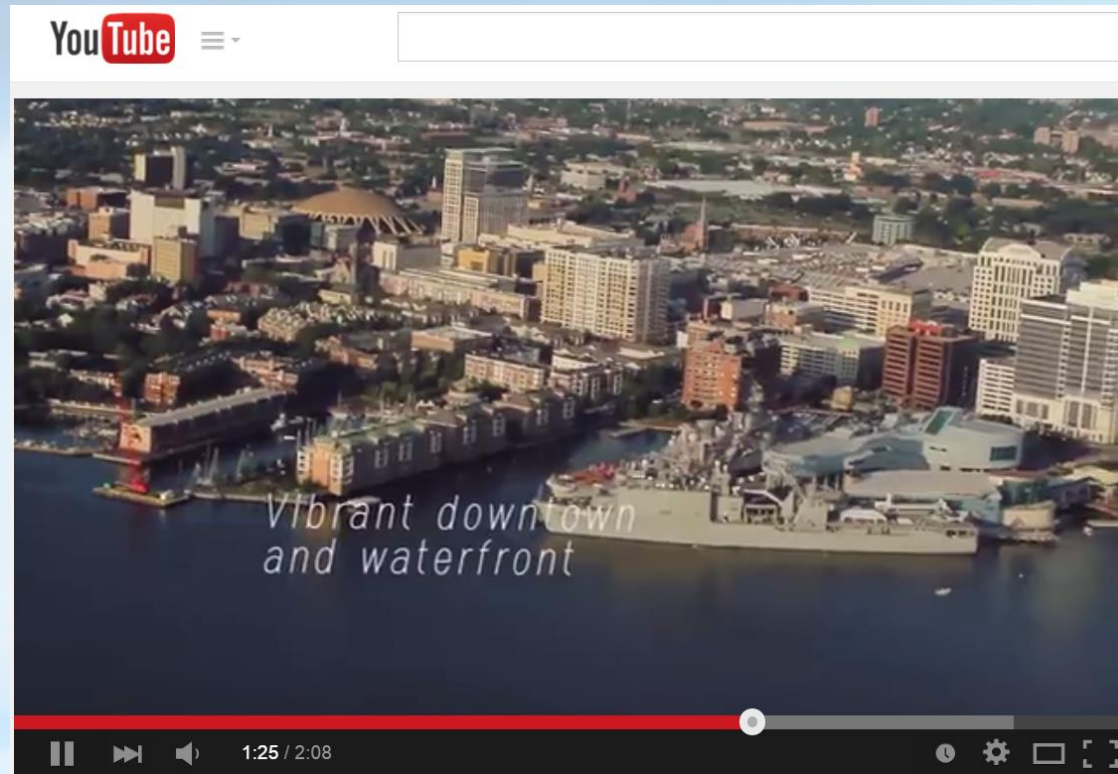
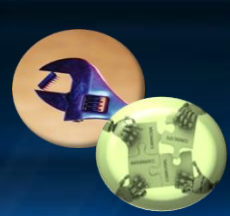


CAD Model & Drawings

- For more specific dimensions, refer to the appendices or download the zipped folder with all CAD drawings from the link provided at Facebook page. Free version of Autodesk Inventor is available for download at Autodesk's website:

<http://www.autodesk.com/education/free-software/all>



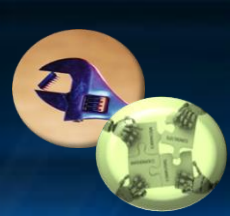


<https://www.youtube.com/watch?v=mlqCDeaGyCY>



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Thank You – See you in Norfolk!



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