

# Russel Bradley

Mechanical Engineer | Manufacturing | Computer-Aided Design | Additive Manufacturing | Industry 4.0

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## Certifications



































# Internships









## Automation Engineer Intern

Delivering world's first fully automated robotic 3D printing production line

## Fusion Catalyst Intern

Fusion 360 Campus Evangelist

## Data Analytics Algorithm Intern

Designed a text data analysis algorithm for Bahasa Indonesia in Python and C++

#### **SolidWorks Student Leader**

SolidWorks Campus Evangelist

Certifications | Workshops

# Teaching

ME2162: Manufacturing Processes (NUS AY20/21-S1)

TME 2162: Manufacturing Processes (NUS AY20/21-S1)

EG2301: Case Studies in Innovation (NUS AY20/21-S1)

EG1311: Design and Make (NUS AY19/20-S1)

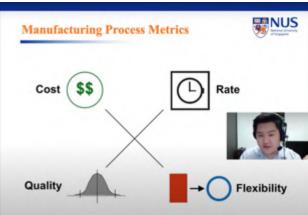
EG2301: Case Studies in Engineering (NUS AY19/20-S1)

CS1010E: Programming Methodology I (NUS AY18/19-S2)

Other Various Workshops on CAD, 3D Printing and Manufacturing









## Laundry Bot

Role: Lead Mechanical Designer and Project Supervisor

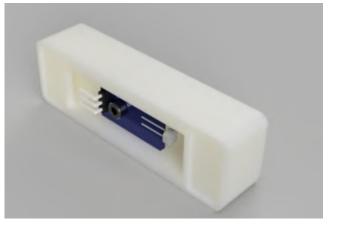
- Project on automated laundry notification system implemented on one of National University of Singapore's student residences.
- The system allows residents to check on the status of the washing machines, so they would not need to go back and forth the laundry rooms to check on the machine availability

GitHub repository: <a href="https://github.com/RC4-">https://github.com/RC4-</a>
LaundryBot/nuscollegelaundrybot









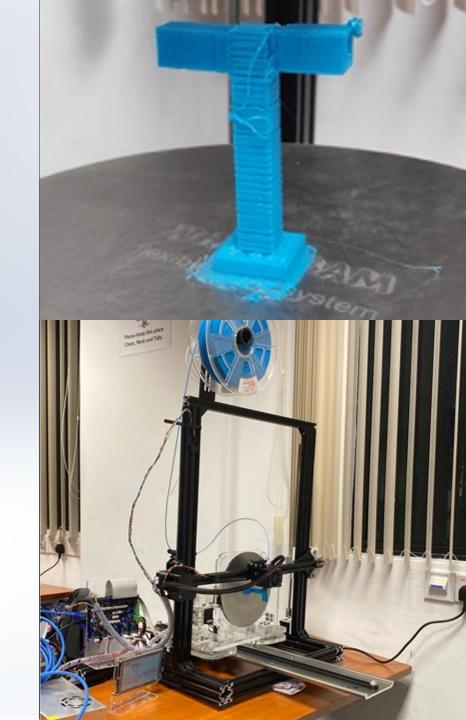


### 5 Axis FDM 3D Printer

Role: Project Lead and Mechanical Designer

We aim to remove the need for support structures in FDM 3D printing by enabling part reorientation in FDM 3D Printing. In addition to that, it is possible to eliminate anisotropy of the part.

Video Link: <a href="https://youtu.be/syLM8uPM0SI">https://youtu.be/syLM8uPM0SI</a>



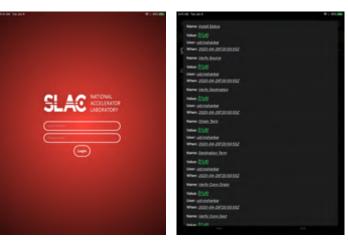
#### SLAC

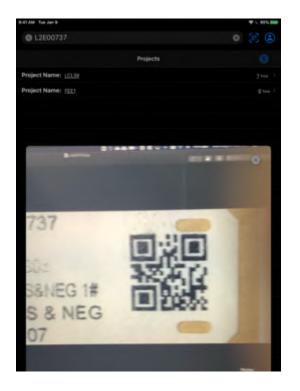
Role: Technical Documentation and Software Engineer

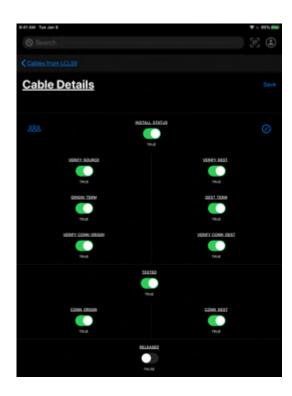
- •Built an iOS and Android mobile application to help technicians and engineers to track and manage their cable connections in SLAC, the longest linear particle accelerator in the world. Our app features a QR code scanner and deferred syncing.
- Each project involves more 10 000 cables and there are more than 10 projects happening at the same time. Our algorithm has improved data syncing time by **10 times faster** than the previous application.









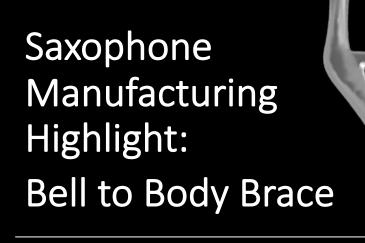




- manufacturers at over 10 countries worldwide
- Our proprietary design, tooling and processes helps to ensure the highest quality







First Metal Additive Manufacturing part for commercial use in the Saxophone

The design allows for a stronger bell to body joint such that no adhesives is needed in the body to bow joint







Producer (Project Director)

 Directed ideas, set objectives, and led the executions of a musical production valued at over SGD 50,000 with a team of 112 members

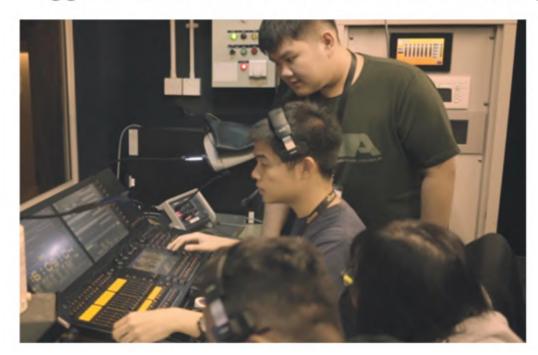
Website: <a href="https://www.nuansacp.com">https://www.nuansacp.com</a>



### Featured: NUS Student Life Ambassador

DIVERSITY & INCLUSION STUDENT LEADERS

#### Juggle between CCAs and Studies – Is this possible in NUS?



http://nus.edu.sg/osa/stories/details/Index/juggle-between-ccas-and-studies



Conference
Session

@
3D Experience
World 2021