

# Team Copy Waste

## Scrum 2

Sept. 24, 2021 - Oct. 8, 2021

 IN PARTNERSHIP WITH  
PRAIRIE ROBOTICS



# THE TEAM



**Nolan Flegel**  
Machine Learning



**Rishabh Prasad**  
Front-End Services



**William Peers**  
Back-End Services

# OBJECTIVE

CREATE AN OBJECT  
DETECTION MODEL FOR  
RARE AND SEVERE  
CONTAMINATION IN  
HOUSEHOLD RECYCLING



# Business Need

- Reduce Risk, Cost
- Regina fire

Saskatchewan

**Firefighters knock down recycle depot fire in Regina's west end**



<https://www.cbc.ca/news/canada/saskatchewan/emterra-recycle-depot-fire-1.6202918>

**STATUS**  
GREEN

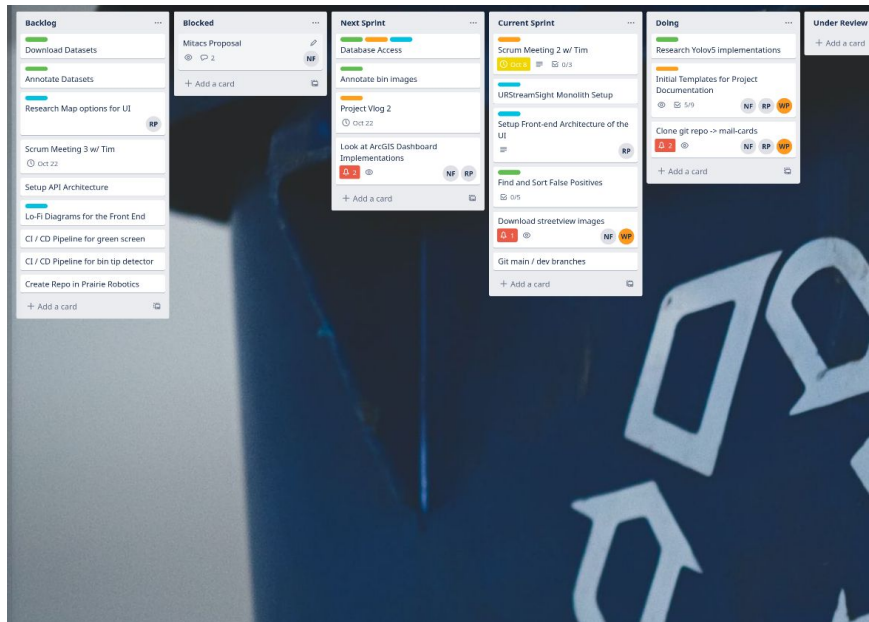
# Things we did

- Meetings with Sam, Matt, Avery from Prairie Robotics
- Meeting with Dr. El-Darieby and his PhD student George
- Technology Stack Access at Prairie Robotics

# Individual Contributions



# Overview



**rishabh** 09/21/2021  
Weekly Meeting - Sept 21 / 2021

- Meeting with Sam & Matt
- Meeting Avery
- Finish Mitacs Proposal
- Finish ENSE 411 Proposal
- Complete ENSE 405 Proposal
- Meeting with Dr. El-Dariebey & George
- Meeting with Tim
- Various Project Research ( Instance Segmentation Tu

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**rishabh** 09/28/2021  
Weekly Meeting - Sept 28 / 2021

- Meeting with Sam & El-Dariebey
- Finish all Project Initialization Documentation
- Send Mitacs Proposal to El-Dariebey
- Setup React Architecture
- Create Dataset of Bin images & False positives
- Continue research & tutorials

**rishabh** Today at 3:33 PM  
Weekly Meeting - Oct 5 / 2021

- Research Yolo implementations
- Create Dataset of bin images & false positives
- Front-end Architecture
- More documentation



# Overview



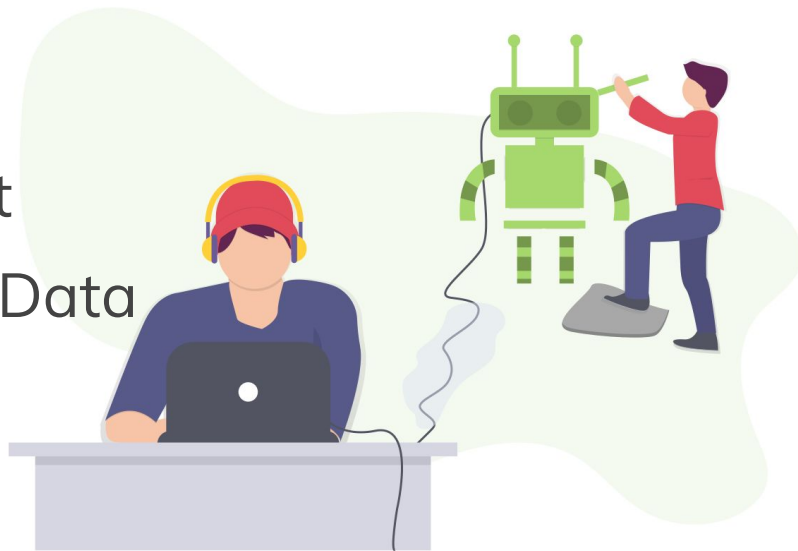
# Project Issues / Changes

No Issues or changes  
at this time!



# Next Up

- More Documentation!
- Frontend Development
- Collecting/Annotating Data



# Reflection

- Does the team feel "on track"?  
We believe we are still on track.
- What progress does the team particularly feel good (great) about?

Conversations with Stakeholders have helped us develop a stronger understanding of the business needs and impact.

Conversations within our project group have led to a clear set of objectives and focus on specific technology platforms.

# Reflection

- What barriers (if any) does the team feel are a current impediment to success?  
Still awaiting feedback upon our Mitacs proposal.
- What help (if any) does the team require to move positively forward?  
Review project initialization documents with Stakeholders

# Reflection

- What questions or concerns does the team have (if any)?

Do you think there is anything that we should focus on in the next two weeks?

# References

- <https://www.cbc.ca/news/canada/saskatchewan/emterra-recycle-depot-fire-1.6202918>