

# Svena Yu

## Project Showcase

<https://miyesven.github.io/>



## Above

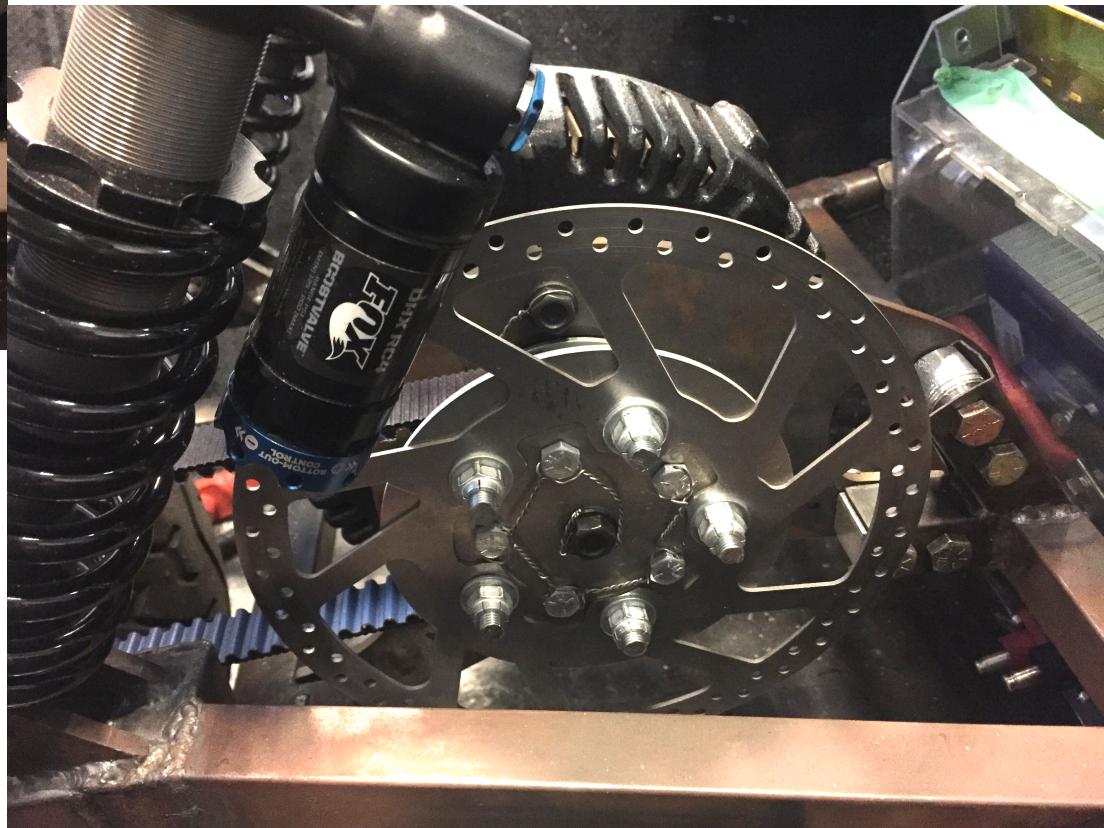
- Rear drivetrain wheel assembly

## Right

- Parking brake, motor mount, motor assembly

## Motor / Wheel Assembly

- Designed motor mount & parking brake
- Redesigned wheel assemblies for better integration
- Fabricated shafts, adapters, mounting tabs



## Brake Pedal

- Redesigned the brake pedal assembly to fit the frame
- Designed brake pedal mount

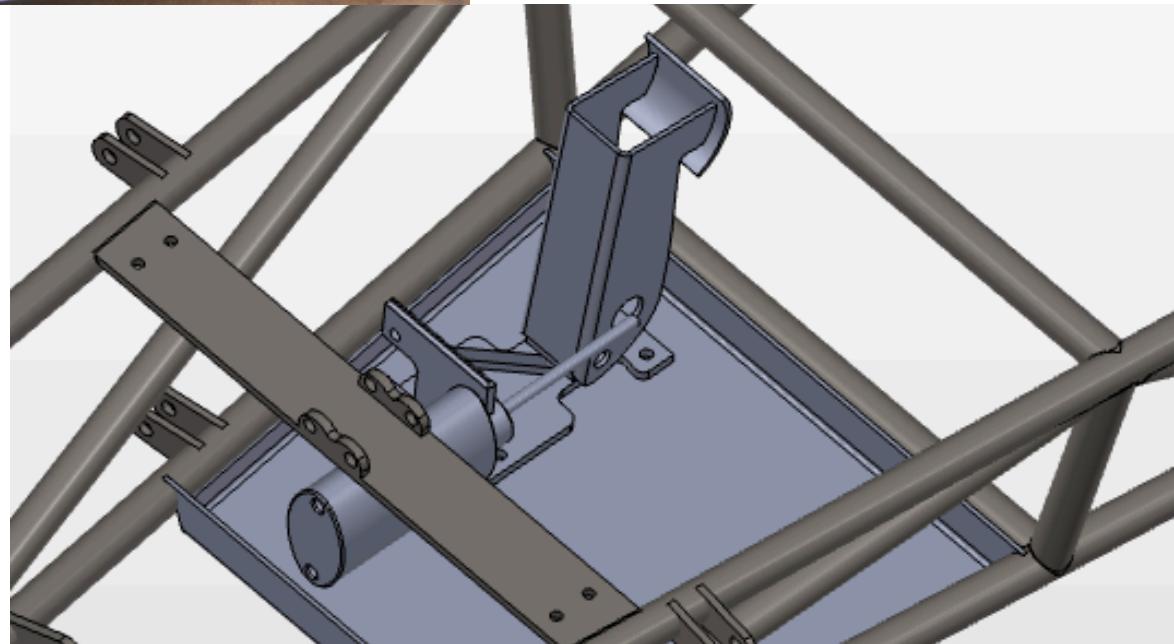


### Above

- Brake pedal mounted in frame with brake pedal mount

### Right

- Solidworks model in assembly





## Above

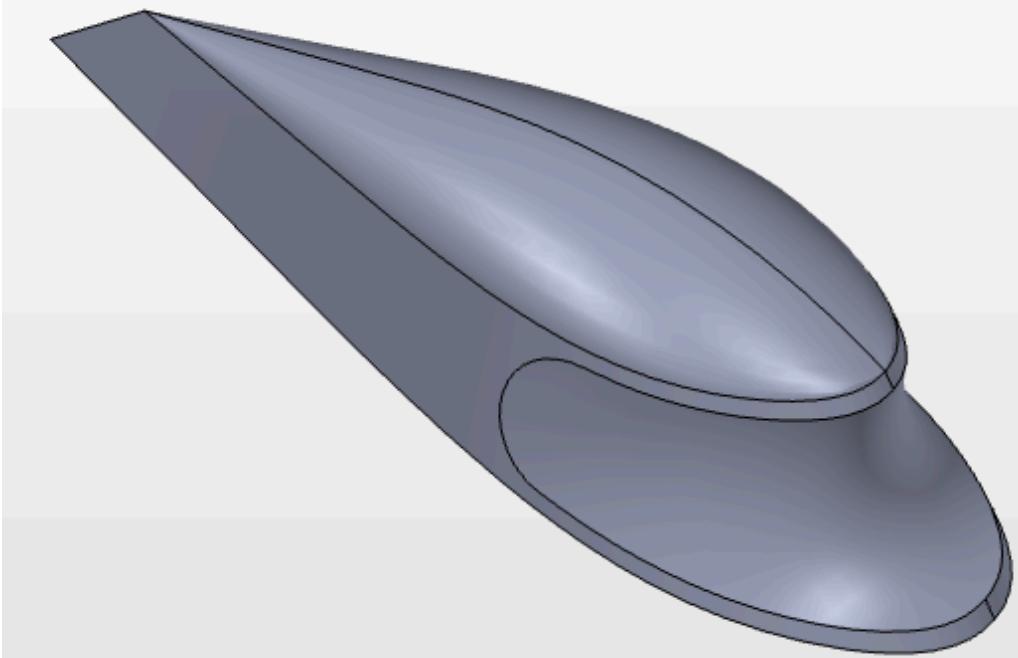
- Integrated Canopy with top shell w/ Egress system

## Right

- Canopy model with windshield

## Canopy

- Designed and fabricated the plug
- Oversaw fabrication for the rest of the canopy



# Competition Photos

(+Scrutineering sheet)



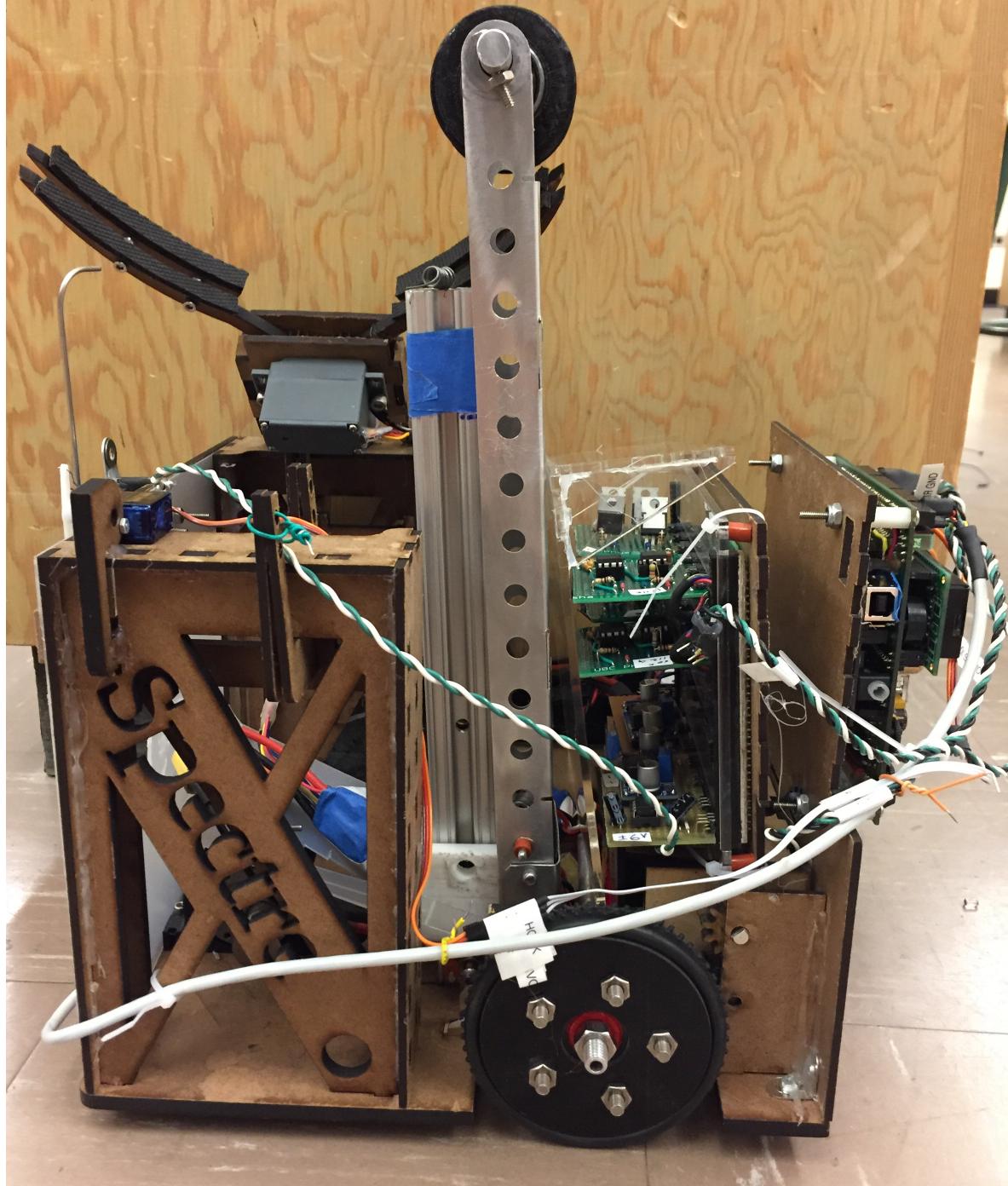
Scrutineering Summary FSGP 2017 SCRUTINEERING July 2017

TEAM: University of British Columbia # 26

Station	Grade	Comments
Array		
Driver Registration		
Driver Operations		
Lights & Vision		need to see lights, horn, rear view
Body & Sizing		Secure seat 574.56cm <sup>2</sup> canopy oversize from handle tether for canopy max 32 psi
Electrical		
Battery Protection		
Mechanical		PENALTY FOR NO PARKING Brake
Dynamics		
Safety		print MSPL gloves ✓

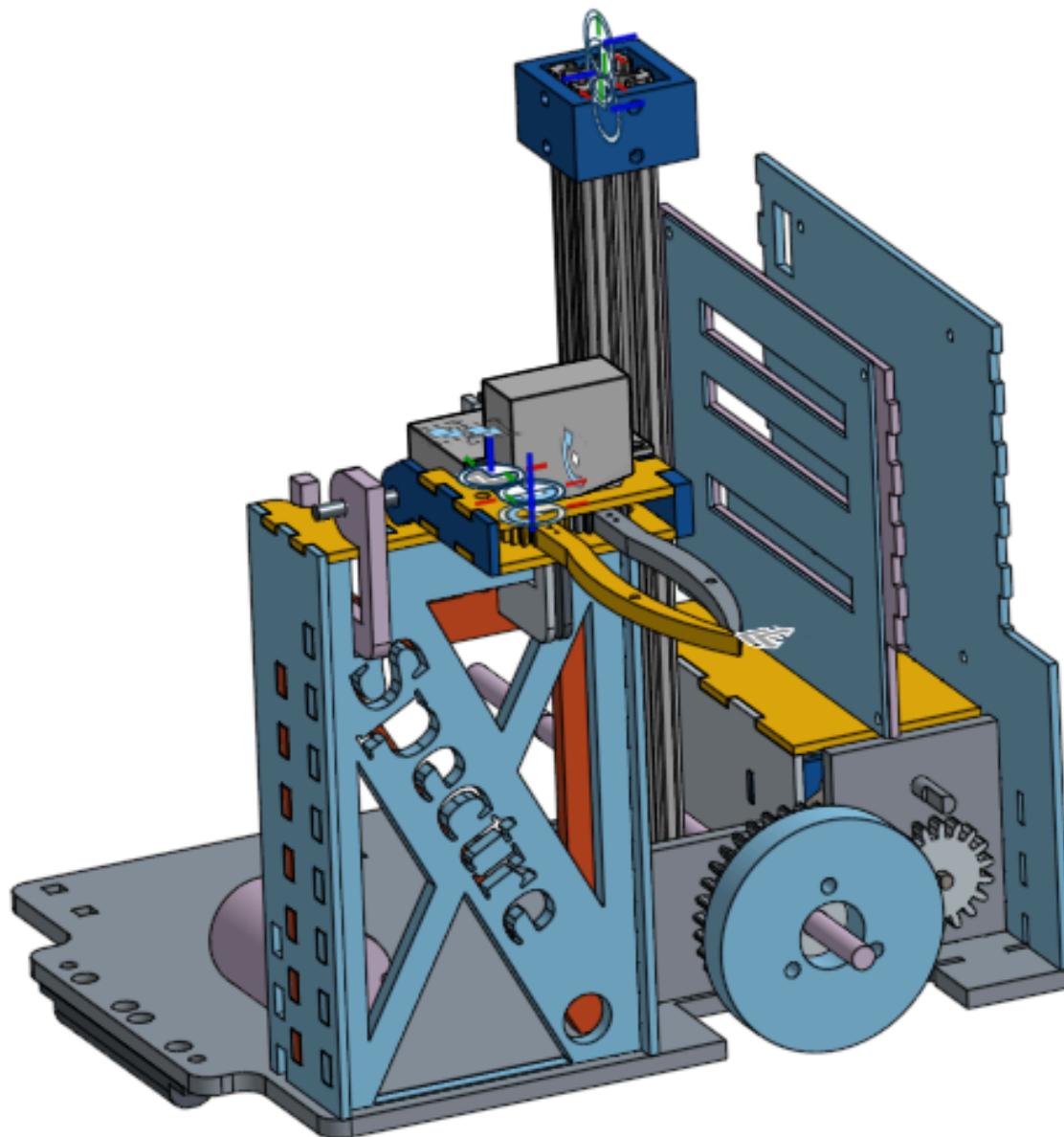
# Engineering Physics Robot Competition (Autonomous Robot)

- Designed powertrain w/  
Stationary axle
- Redesigned the chassis  
three times in Onshape
- Rapidly manufactured  
all the mechanical  
components besides  
the arm.
- Designed a robust  
winching system to pull  
the whole robot onto a  
tall pole



<https://enph2020.github.io/robots/spectre/>

## Chassis



## Left

- Third Iteration
- Assembled half of full robot

## Bottom

- Second Iteration

