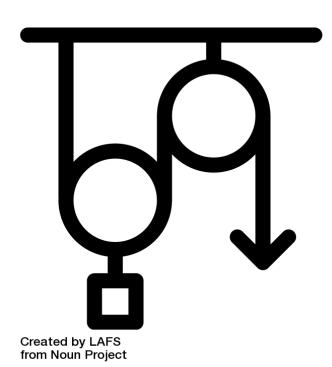
# Friction Force Explorers

Don Zheng, Neil Jassal, Rachel Holladay

### Metrics Used

# Metric #1: Mechanical Complexity



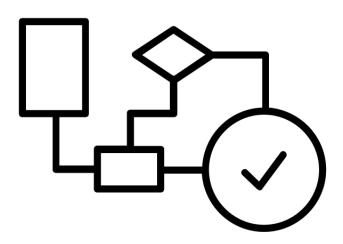


Created by Guilherme Simoes from Noun Project

# Metric #2: Algorithmic Interest

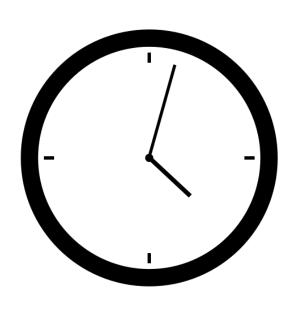




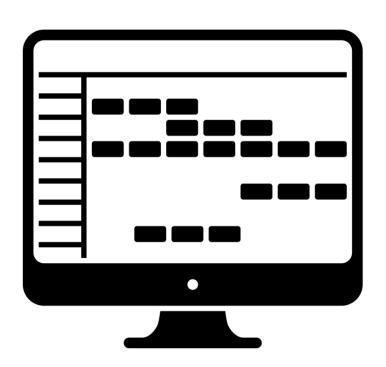


Created by Sergey Novosyolov from Noun Project

#### Metric #3: Time

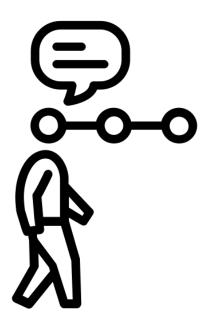


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# Metric #4: Usability

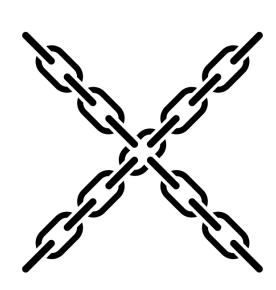


Created by Yu Luck from Noun Project

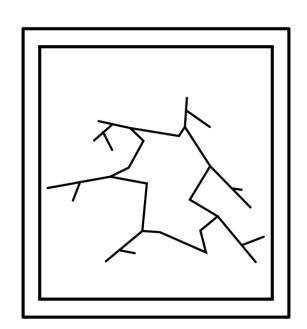


Created by hans draiman from Noun Project

# Metric #5: Durability



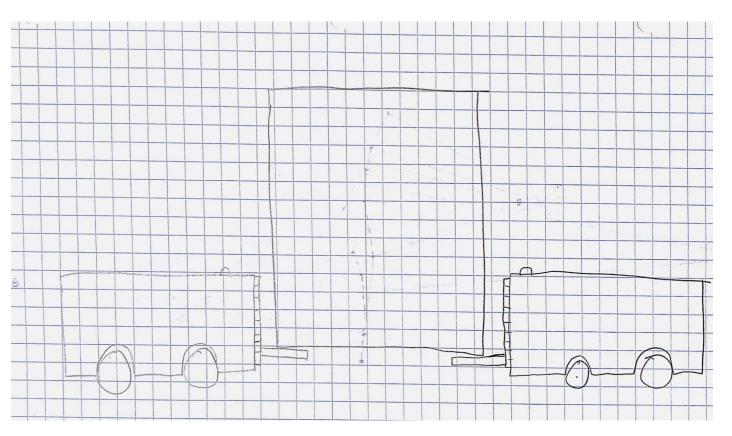
Created by Aaron K. Kim from Noun Project



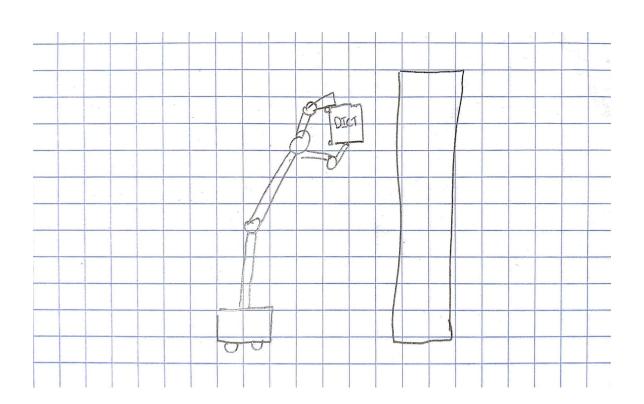
Created by Mayur Bhat from Noun Project

Robots to Be Evaluated

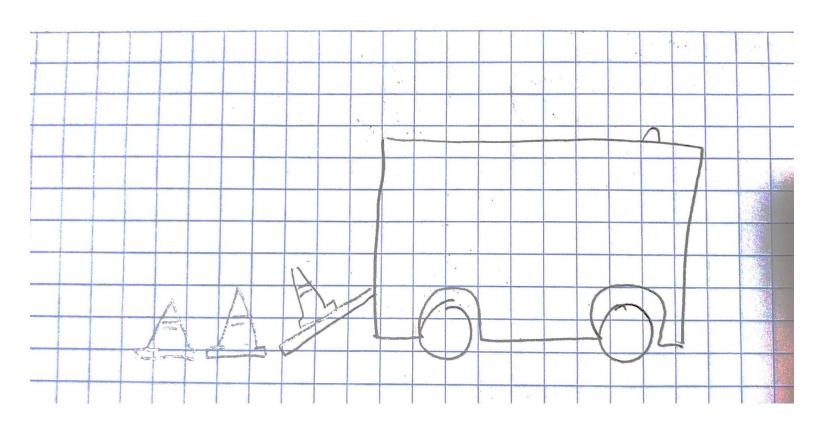
#### Robot #1: Multirobot Movers



#### Robot #2: Robot Librarian



# Robot #3: Cone Laying Robot



**Alternatives Evaluation** 

			Multi-Robot Movers		Robot Librarian		Cone Laying Robot	
Evaluation Criteria	Priority (1-5)	`			Metric Score (1-5)			Weighted Score
Mechanical Complexity	-5	# of mechanically significant parts	2	-10	4	-20	3	-15
Algorithmic Interest	3	# of interesting problems	4	12	2	6	3	9
Time to build	-4	Schedule predictability	3	-12	3	-12	4	-16
Usability	1	Startup potential	3	3	2	2	5	5
Durability		# of fragile mechanical components	1	-2	3	-6	2	-4
				-9		-30		-21