

## **Equipment for F1Tenth Autonomous Racing Capstone Course**

### **Data Collection**

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#### **What data will you collect or create?**

Data collected will be lab and other assignments completed by the students. The students will also log data to help them improve the performance of their vehicles.

#### **How will the data be collected or created?**

The assignment data will be generated by students in response to assignment prompts. The log data will be collected from the sensors on the student teams' RC cars.

### **Documentation and Metadata**

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#### **What documentation and metadata will accompany the data?**

The assignment data will be self-explanatory based on the assignment prompts. Documentation of the log data is left up to each team, but those data are not meant for public consumption.

### **Ethics and Legal Compliance**

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#### **How will you manage any ethical issues?**

Student grades and grading feedback will be kept private.

#### **How will you manage copyright and Intellectual Property Rights (IP/IPR) issues?**

Any IP that is generated in the course belongs to the students according to CMU policy.

### **Storage and Backup**

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#### **How will the data be stored and backed up during the research?**

All of the assignment data will be submitted and stored on Canvas.

#### **How will you manage access and security?**

Only registered students and instructors have access to Canvas.

## **Selection and Preservation**

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**Which data are of long-term value and should be retained, shared, and/or preserved?**

There is no expectation of data generated in this project having long-term value. The student assignments and projects will be stored on Canvas.

**What is the long-term preservation plan for the dataset?**

No dataset is anticipated.

## **Data Sharing**

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**How will you share the data?**

The data will be shared among the instructors using Canvas.

**Are any restrictions on data sharing required?**

The data will be restricted to the instructors based on Canvas access.

## **Responsibilities and Resources**

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**Who will be responsible for data management?**

The PI will be responsible for data management.

**What resources will you require to deliver your plan?**

CMU's Canvas course management software will be required.

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## Planned Research Outputs

### Text - "Final project reports"

Some of the student final project reports may have research value, since the final projects seek to extend the state of the art in autonomous racing.

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### Planned research output details

Title	Type	Anticipated release date	Initial access level	Intended repository(ies)	Anticipated file size	License	Metadata standard(s)	May contain sensitive data?	May contain PII?
Final project reports	Text	Unspecified	Open	None specified		None specified	None specified	No	No