



UNIVERSITY OF TORONTO AEROSPACE TEAM - SPACE SYSTEMS

4925 DUFFERIN STREET | TORONTO, ONTARIO, CANADA | M3H 5T6
WWW.UTAT.CA/SPACE-SYSTEMS | SPACESYS@UTAT.CA

Educational Presentation

How to use GitHub

A better way for us to collaborate and connect the world.

By: Khang Nguyen



January 7th, 2022



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REDEFINING LIMITS | 2014-2022

A bit about me



University of Toronto

Bachelor of Applied Science in Engineering Science, Aerospace, Aeronautical and Astronautical Engineering
2020 - 2024

Activities and societies: University of Toronto Aerospace team, Tennis Skule A, University of Toronto Tennis Club, University of Toronto Aerospace Team, Engineering Society



University of Toronto Aerospace Team

On-Call · 2 yrs 3 mos

- **Attitude Determination and Control Systems (ADCS) Lead**

Nov 2021 - Present · 1 yr 1 mo

Ensures the spacecraft is oriented optimally for communication, operation and power generation



- **Sensors and Actuators Project Lead**

Sep 2021 - Jun 2022 · 10 mos

- **ADCS General Engineer, Space Systems**

Sep 2020 - Oct 2021 · 1 yr 2 mos

Toronto, Ontario, Canada

Skills: C (Programming Language)



Guidance, Navigation and Control (GNC) Software Developer

Astris Aerospace Inc · Internship

May 2022 - Sep 2022 · 5 mos

Toronto, Ontario, Canada

Skills: LaTeX · GitHub · Python (Programming Language)



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Today Agenda

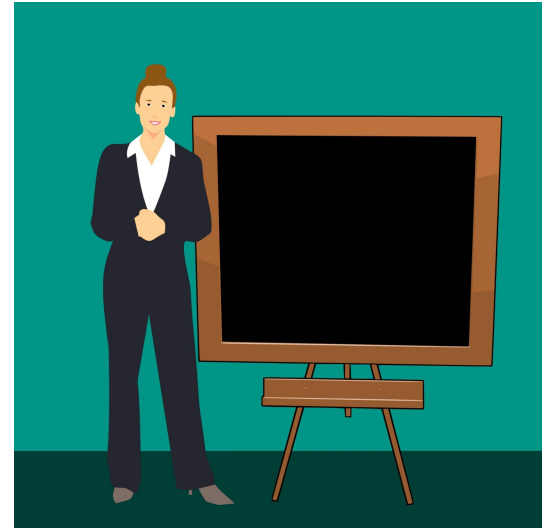
What are we doing today?



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Today Agenda

- About me (1:00 - 1:05)
- What is Aerospace Engineering? (1:05 - 1:10)
- What is GitHub? (1:10 - 1:25)
- How to use GitHub? (1:25 - 1:45)
- Any questions? (1:45 - 1:55)
- How to contact me? (1:55 - 2:00)



What is Aerospace Engineering?



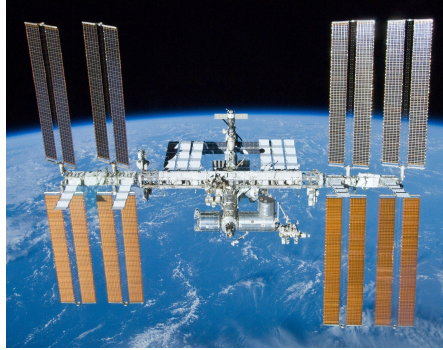
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Aerospace Engineering

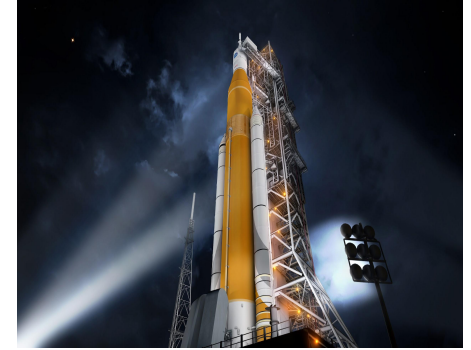
Aerospace engineering is the primary field of [engineering](#) concerned with the development of [aircraft](#) and [spacecraft](#). It has two major and overlapping branches: [aeronautical](#) engineering and [astronautical](#) engineering. [Avionics](#) engineering is similar, but deals with the [electronics](#) side of aerospace engineering. [Copy from Wikipedia]



Aerial System



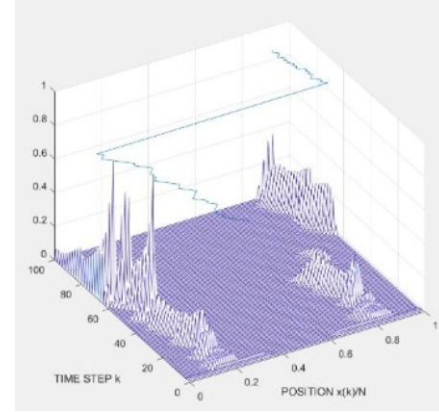
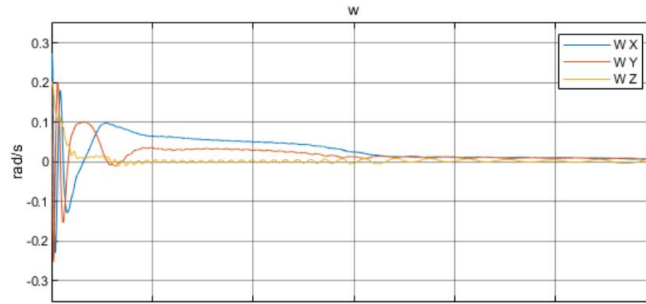
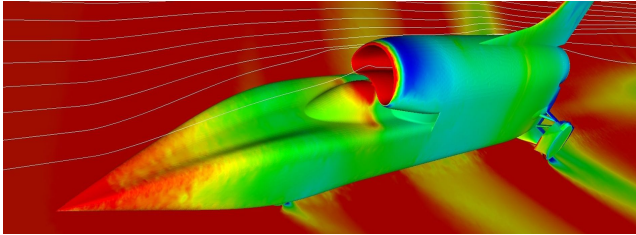
Space System



Rocketry

How do we use Software in Aerospace?

Modelling: We use software to model complex system

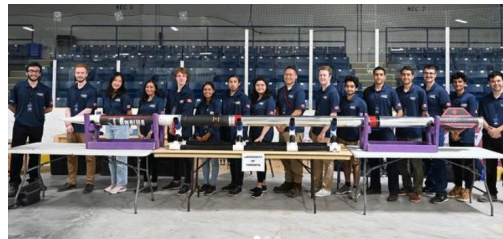
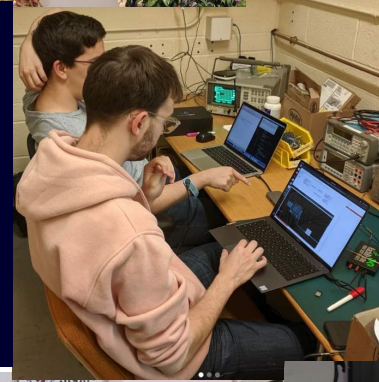


Control: We use code to control Robotic system



About UTAT

- UTAT is an award-winning design team that brings passionate undergraduates and graduates together to develop aerospace technology.
- UTAT divisions:
 - Rocketry
 - Space System
 - Unmanned Aerial System
 - Aerospace Policy



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What is Github

What is GitHub and why do we need it?

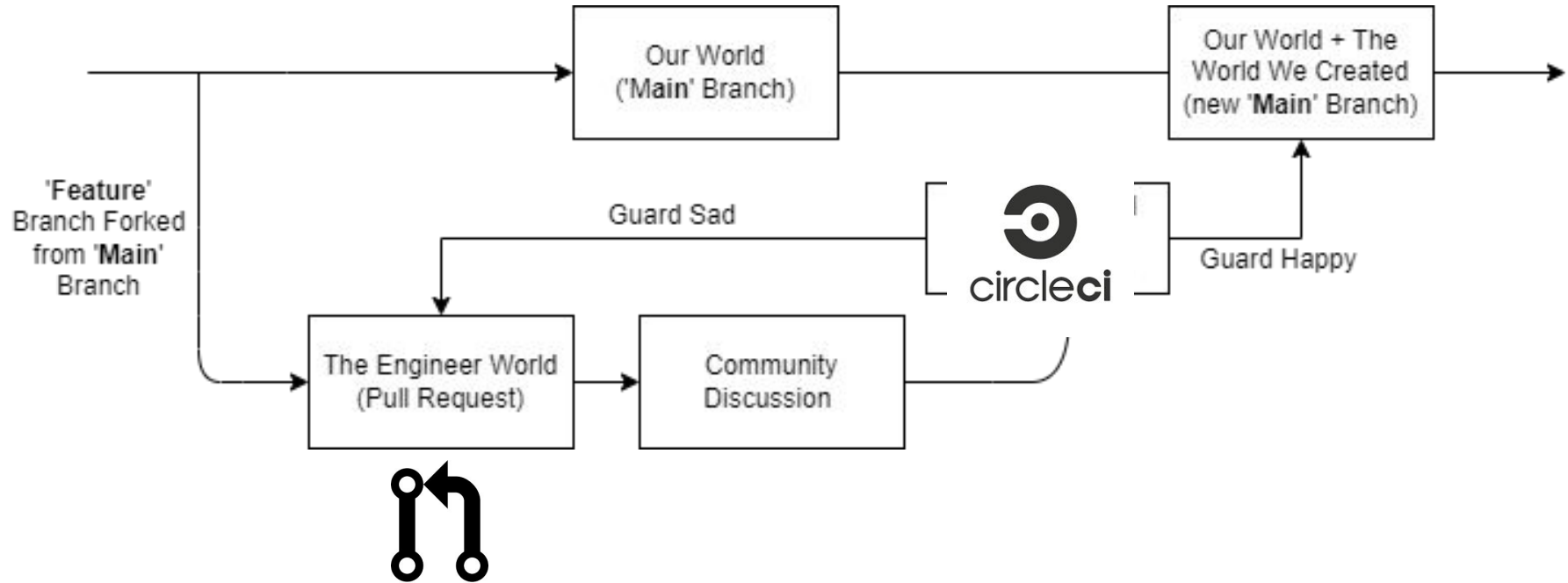


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What is GitHub?



What is GitHub



How to use GitHub?

OK! Let's learn how to use it!



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How to use GitHub?



PLEASE GO TO THIS REPOSITORY:

<https://github.com/khangaerospace/Training>

What you will need:

- Create a GitHub Account (<https://github.com/>)
- Github Desktop(<https://desktop.github.com/>)



Any Question?

I am happy to answer any question.



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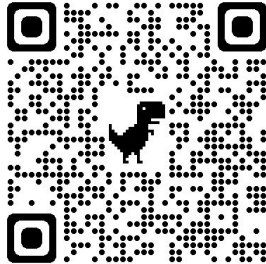
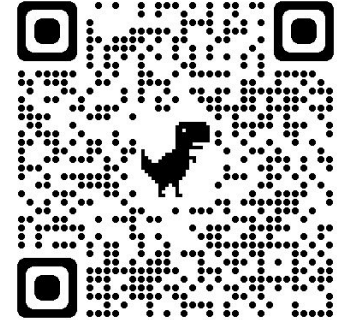
Contact Me

Let's stay connect



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Khang's Contact information.



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