Welcome to ARES

From the ARES Committee



About ARES

The Aerospace and Rocket Engineering Society (ARES) is a group of students who have come together to design and engineer aeronautical technology.

That includes; planes, drones, helicopters, rockets, satellites and anything else you could possibly think of do with aerospace!

We love to get our members involved in hands-on projects and get ready for industry!











Jisoo

President

Rocketry team Vice Lead

Capstone Project Hybrid Rocket Engine



Harrison

Vice-President

Rocketry team
Operations & Logistics
Lead

Australian Youth Aerospace Association Treasurer



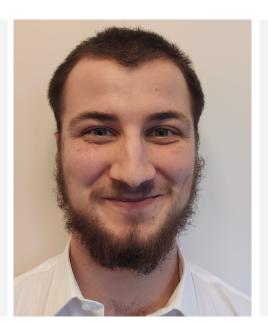


Hasan

Secretary

Rocketry team
Flight Sims Engineer

Software Developer



Baden

Treasurer

Rover team Chassis

Spatial Engineer & Drone Enthusiast





Ann

Engineering Officer

Rocketry team Internal Structures & CFD Engineer

Graduate Engineer!



Cas

Engineering Officer

Rocketry team Internal Structures Engineer

Capstone Project
Thrust Vector Control





Ben

Rocketry Team
Chief Engineer
Avionics Team

Mechatronics Engineer

ARES Workshop Host



Luna

Events Officer

Underwater vehicle design

Info for potential employment opportunities





Zhe

Marketing

Graduate Marketing Specialist!

Unimelb Rover team

Information Systems
Graduate



Peter

Marketing

Rocketry team Project Lead

Melbourne Space Program Acrux-2 Co-Lead

ARES Club Projects







Project Phobos

Australian Universities Rocket Competition 2022

Join our club's largest on-going project, with more than 40 members involved.

Design, manufacture and launch a rocket carrying CubeSat to **10,000ft.** Subsystems include aerodynamics, flight simulations, internal structures, avionics and payload.

ARES Club Projects





UniMelb Rover Team (U.R.T.)

Australian Rover Challenge 2022

In collaboration with Unimelb clubs MESS and MUECC, design and build a rover to compete in a full-scale simulated lunar mission consisting of more than 40 members.

Subsystems include robotic arm, electrical, chassis, software, science payload and marketing.

Follow URT on instagram @unimelbrover

ARES Partners









LEAP Australia

Engineering Software Consultants

LEAP Australia have partnered with the Project Phobos team act as mentors for modelling and simulation software. In particular, LEAP provide us assistance with the Ansys and Onshape software packages. **Ansys** - powerful software capable of CAD, mechanics simulations (FEA), fluid dynamics simulations (CFD) and much more. **Onshape** - cloud-based CAD design tool used by Project Phobos.

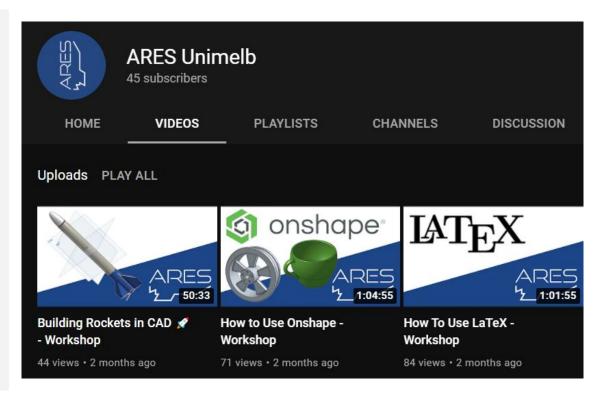
ARES Workshops - Sem 1



- Previous workshop topics included LaTeX, OpenRocket, Onshape and PCB design. Check out on our <u>YouTube</u> channel
- Sem 1 workshops focused on DIY rocket building project over 10 sessions. Find out about the whole journey on our

GitHub homepage

- We will be running 5 or 6 workshops for this semester
- Join <u>our slack channel</u> to receive regular updates and information on our workshops



ARES Workshops - Sem 2



- 5 or 6 workshops this semester
- Workshops mostly in first half of semester over zoom
- Ba COVID restrictions we will plan in-person workshops for the 2nd half of the semester
- We will focus on **Ansys** simulation software - industry leader!



	Date		Workshop
Week 1	26 Jul	30 Jul	No Workshop
Week 2	2 Aug	6 Aug	Meet & Greet!
Week 3	9 Aug	13 Aug	Ansys Onshape + CFD Part 1
Week 4	16 Aug	20 Aug	No Workshop
Week 5	23 Aug	27 Aug	Ansys CFD Part 2
Week 6	30 Aug	3 Sep	No Workshop
Week 7	6 Sep	10 Sep	Ansys FEA
Week 8	13 Sep	17 Sep	No Workshop
	20 Sep	24 Sep	Mid Sem
Week 9	27 Sep	1 Oct	TBD
Week 10	4 Oct	8 Oct	TBD
Week 11	11 Oct	15 Oct	TBD
Week 12	18 Oct	22 Oct	TBD

ARES Events









Plans for Semester 2:

- Women in Engineering (with MESS) Originally planned for Wednesday
 28th July (stay tuned)
- ARES Industry Night (stay tuned)
- Rocketry **Hackathon** Workshop
- Rocket **launches** on weekends
- Webinars with Australian Space
 Agency and Space Agency Start-Ups

How to join ARES and participate

• Sign up to be a club member

aresmembership.getgpay.com

 Join <u>aresmelbourne.slack.com</u> for updates and to join the rocket and rover project teams!





Next week - Ansys Onshape + CFD Part 1

See you next week!:)

