

Libre Space
Foundation







sdrmaker.space

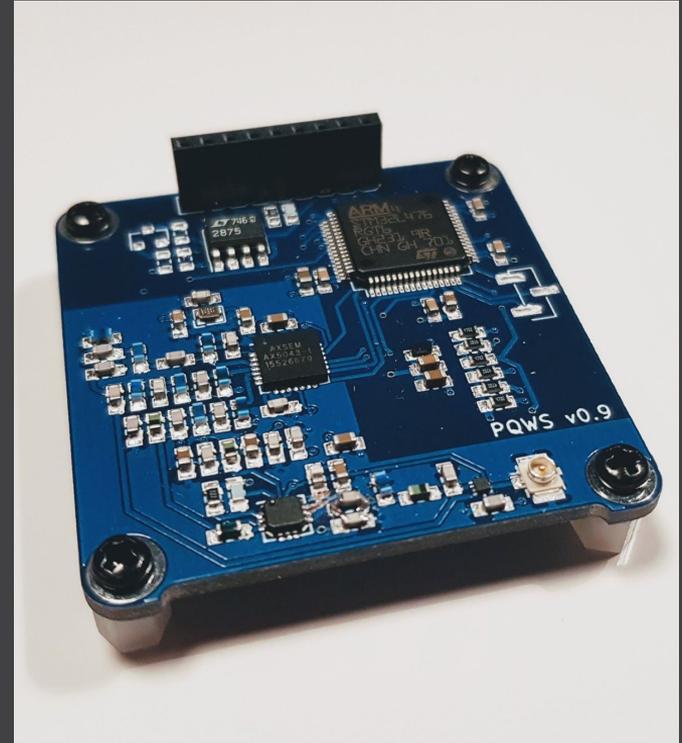
- ESA ARTES activity
- Software Defined Radio R&D and exploration for SatComs
- 12 themes
- 16+ sub-activities planned
- Fast iteration - Synergies explored
- Activities on all TRL
- Implementers wanted!
- Open source software and hardware



SDR
makerspace

PQ9ISH COMMS

- Pocketcube format (50x50mm)
- Combined OBC and COMMS
- UHF uplink and downlink
- 2W transmitter
- CAN bus interface
- Cubesat PC104 adapter available
- Released as open hardware with open source software
- TRL 6



The OpenAstrodynamics Initiative

OpenAstrodynamics is a collaboration between open source astrodynamics and space engineering projects to share resources, ideas, and to improve code.

Core Principles

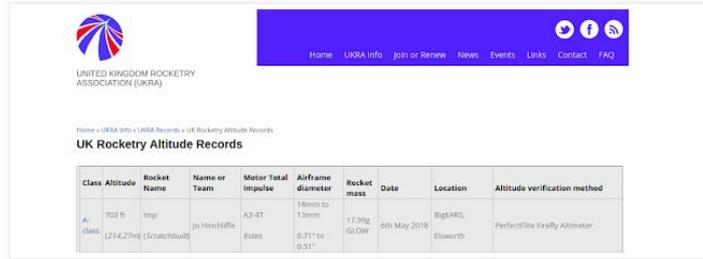
We believe in...

- Interoperability through open standards and protocols
- Sharing validated algorithms
- Contributing test cases and reference scenarios
- Diversity in implementations and technologies

Members

- **Astrodynamics.jl** is an MPLv2-licensed framework for building astrodynamics applications in Julia.
- **openastro** is a collection of C++ libraries for astrodynamics and space engineering.
- **poliastro** is a python package for Astrodynamics and Orbital Mechanics problems, such as orbital elements conversion, orbital propagation, plotting, planetary ephemerides computation, and more.

Imp... my UK Rocket Altitude record!

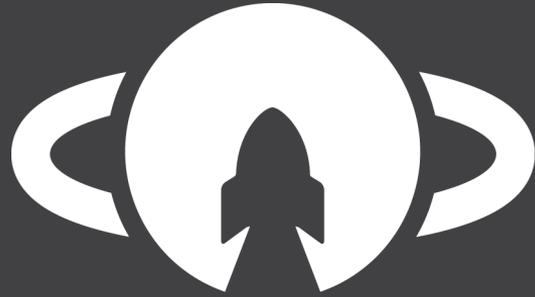


The screenshot shows the UK Rocketry Association website. At the top left is the UKRA logo, a stylized rocket with red, white, and blue segments. Below it is the text "UNITED KINGDOM ROCKETRY ASSOCIATION (UKRA)". To the right is a blue navigation bar with icons for Twitter, Facebook, and RSS, and a list of links: Home, UKRA info, Join or Renew, News, Events, Links, Contact, and FAQ. Below the navigation bar is a breadcrumb trail: Home > UKRA info > UKRA Records > UK Rocketry Altitude Records. The main heading is "UK Rocketry Altitude Records". Below this is a table with the following data:

Class	Altitude	Rocket Name	Name or Team	Motor Total Impulse	Airframe Diameter	Rocket mass	Date	Location	Altitude verification method
A	703 ft (214.27m)	Imp (Scratchbuilt)	Jo Hinchliffe	A3-4T Ebbe	130mm to 130mm	17.99g GLOW	0th May 2018	BigEARS, Elsworth	PerfectFlite Firefly Altimeter

So.. Had a fab weekend. I travelled down to the mighty [BigEARS rocketry event](#) (another post on that later) and whilst I was there I finally got to launch my imp scratch built rocket and set a [new UK rocketry altitude record](#) in the A impulse class! The previous record was from 2013 and set at 143 metres and I am very happy to report and show that imp achieved 214 metres!





Libre Space
Foundation