

jdb says: 13th Dec 2014 at 4:54 pm Do you have any idea how much paperwork it takes to certify that your device will *not* crash the International Space Station? Pro tip: it's a lot. Reply
I'm sure it is. But that is SW part :) On the other hand how do you tell if the PI will be able to work? I mean the radiation and the heat (lack of heat) during getting there? I assume that the *within* the ISS the radiation level is OK, but what about outside of it? Is the PI space-proof? What about the HAT? I reckon that most of the ICs of the spaceships and stuff are expensive because they
had to be space-proof (radiation, low temperature). PS: Pi in the space. Wow. I mean WOW!! Reply Ravenous says: 16th Dec 2014 at 9:12 am Radiation isn't really a problem - apparently the folks up on the ISS use a lot of old laptops and similar devices, which aren't radiation hardened.
The ISS is in a fairly low orbit so the Van Allen belts protect it a bit. Reply Chris Evans says: 13th Dec 2014 at 11:47 am Amazing! (In both the original meaning and modern usage of the word) Reply
Dr. Michael Danielides says: 17th Dec 2014 at 1:16 pm Hello Space RPi fellows, I am wondering if the RPi hardware was already tested for space applications at vacuum conditions? Are there any out-gazing or thermal test done? As I understand so far RPi was only (to-be) taken to ISS under normal pressure condition. Would RPi hardware be robust enough to operate at space conditions (liquid nitrogen
temperature up to higher temperaturs and space weather impacts)? So basically I am asking similar stuff as bobek did above. Only with the aim for RPi operation outside ISS Reply John C says: 21st Jan 2015 at 9:58 pm We are only testing Astro Pi to work within the pressurised volume of the ISS. Tests
include out gassing, and EMC. It will also be shock/vibe tested in accordance with the profile of the LV, to check it will still operate when it gets delivered to the ISS. Astro Pi wont be interfacing with any ISS systems. It will only be taking power. Like Ravenous said, it's similar to the virtually COTS laptops already flown, and it's not flight critical! Astro Pi will be tweeting pictures as it goes through these certification tests. It will be interesting!
Reply Sundar says: 10th Jan 2015 at 4:55 pm This is a brilliant competition and one that BCPD Trust plans to promote and get all our young entrepreneurs involved. First response from our sports club members was very positive and we plan to get few Raspberry Pi kits to get them taking part.
Reply Winfried Ursin says: 10th Jan 2015 at 8:07 pm T.hese people should invite raspberry pi youngsters as well I think. It would be even cheaper than using smartphone technology in space! http://ieeexplore.ieee.org/xpl/login.jsp?
tp=&arnumber=6497349&url=http%3A%2F%2Fieeexplore.ieee.org%2Fxpls%2Fabs_al l.jsp%3Farnumber%3D6497349 Good luck to everybody, sadly I am way too old to be accepted for a AstroPin project ;-) Reply Oliver says: 28th Jan 2015 at 6:34 pm
Correct me if I'm wrong, but I've heard that the pi NoIR camera is only sensitive to near-infrared so doesn't that mean it wouldn't do too well at capturing infra-red images of the earth, as suggested on their website? "Infrared can be used to detect heat signatures, e.g. for weather forecasting and plant health." http://astro-pi.org/satellite-imaging-and-remote-sensing/ Reply David Anderman says: 21st Feb 2015 at 5:25 pm
We are working on a permanent facility for Raspberry PI and Arduinos at ISS, similar to the Nanoracks facility that currently hosts CubeSATs. The facility would provide a more radiation tolerant environment for microcontrollers, as opposed to the general environment of ISS. One opportunity is to locate the Rasperry Pi outside of ISS, so that webcams and the like could view the Earth, and transmit the images back to Earth. Reply
Christopher Vahlsing says: 3rd Mar 2015 at 4:32 am This is amazing. It wasn't until I was in my 20s building hardware and learning controller programming in college, and here its a completion for grade and high schoolers!!! Actually, the Astro-HAT is pretty cool on its own without the competition. I would like my own to play with. Will they be available for purchase? Also, will the Astro-HAT be compatible with pi 2? The prefab sensor array looks phenomenal for many applications.
LEAVE A REPLY Your email address will not be published. Required fields are marked * Name *
Email * Website Comment
You may use these HTML tags and attributes: <a "="" href="" title=""> <abbr title=""> <acronym title=""> <blockquote cite=""> <cite> <code> <del datetime=""> <i> <q cite=""> <s> <strike> Post Comment</strike></s></q></i></code></cite></blockquote></acronym></abbr>
About us FAQs Cookies Trademark rules Creative Commons
RASPBERRY PI FOUNDATION UK REGISTERED CHARITY 1129409