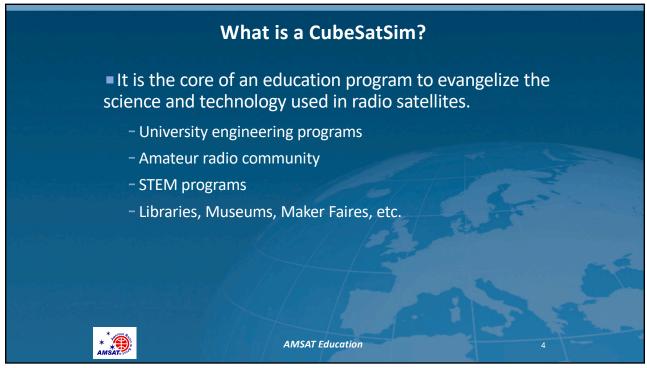


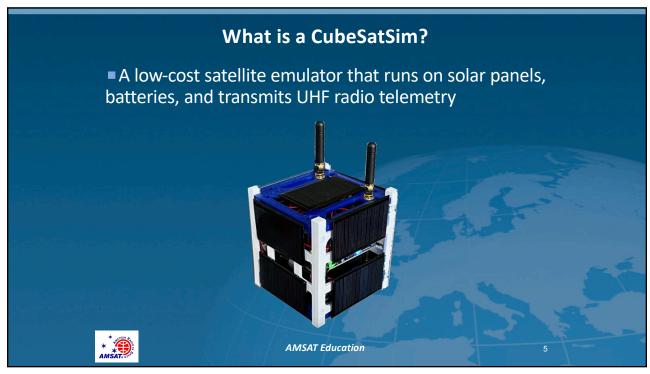
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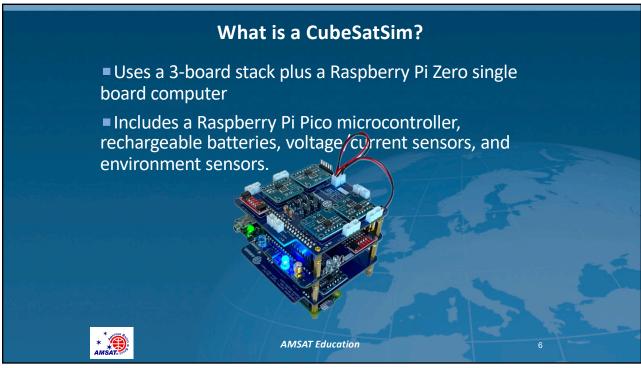
## Topics ■ CubeSatSim Team ■ What is a CubeSatSim? ■ Project Survey Results ■ Technical Details ■ Demo ■ Get Involved ■ Q & A ■ Acknowledgements AMSAT Education 2

## **CubeSatSim Project Team** Hardware Students ■ Beta Builders Alan Johnston, KU2Y Villanova University, Villanova, PA CubeSat Club and 2024 - 2019 ECE ■ Bob Koepke ,AA6TB ■ Jim McLaughlin, KI6ZUM 1205 Freshman Projects classes ■ Kerry Bonin, KJ7HTG ■ David White, WD6DRI ■ Bishop O'Connell High School, Arlington, VA DJO ARC students and ■ Jim Nagle, KF4OD teacher Melissa Pore, KM4CZN Educational Materials Virginia Smith, NV5F Paul Graveline, K1YUB Chris Thompson, G0KLA/AC2CZ CAD Alan Johnston, KU2Y Randy Standke, KQ6RS, Lindsay White, KI6LZN Fredric Raab, KK6NOW Christine Mehner, MD, PhD, KO4EWG Mark Samis, KD2XS Filter Design and Sopwith, N1SPW David White, WD6DRI Testing, RF Testing ■ Kai Ji, AC3EN Randy Standke, KQ6RS hank You! AMSAT Education

3

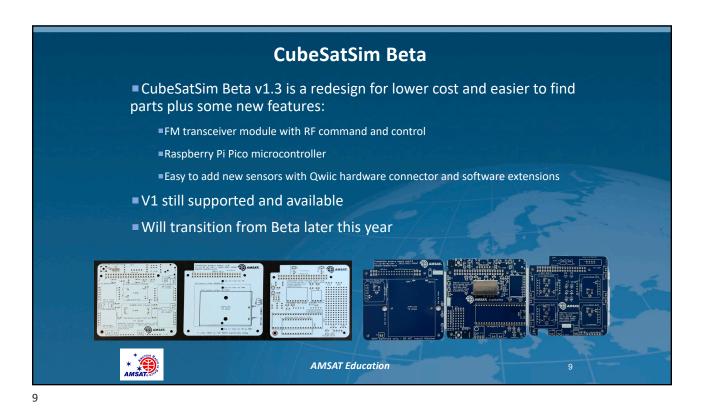




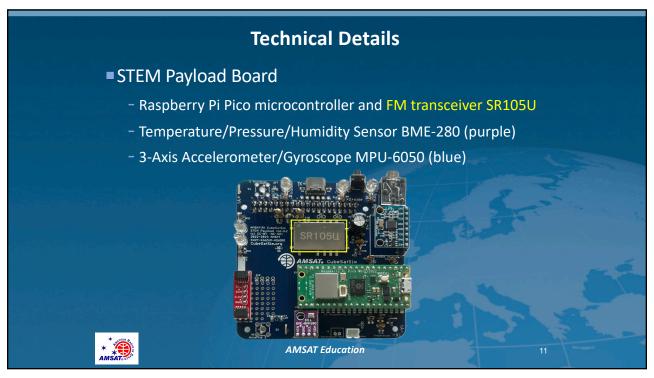


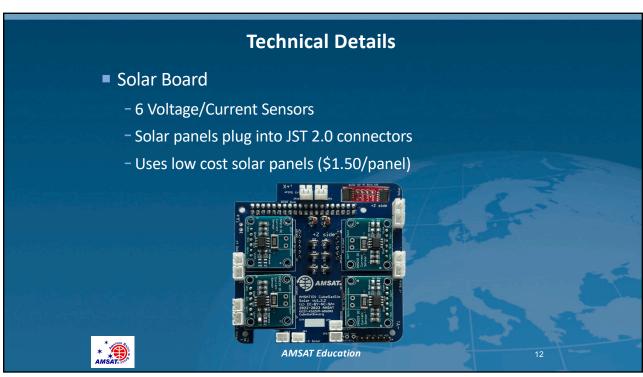
## What is a CubeSatSim? Transmits 70cm amateur band UHF radio housekeeping telemetry to a ground station in multiple formats - describing the operational location/health of the satellite. \*\*Transmits 70cm amateur band UHF radio housekeeping telemetry to a ground station in multiple formats - describing the operational location/health of the satellite. \*\*Transmits 70cm amateur band UHF radio housekeeping telemetry to a ground station in multiple formats - describing the satellite. \*\*Transmits 70cm amateur band UHF radio housekeeping telemetry to a ground station in multiple formats - describing the satellite. \*\*Transmits 70cm amateur band UHF radio housekeeping telemetry to a ground station in multiple formats - describing the satellite. \*\*Transmits 70cm amateur band under the satelli

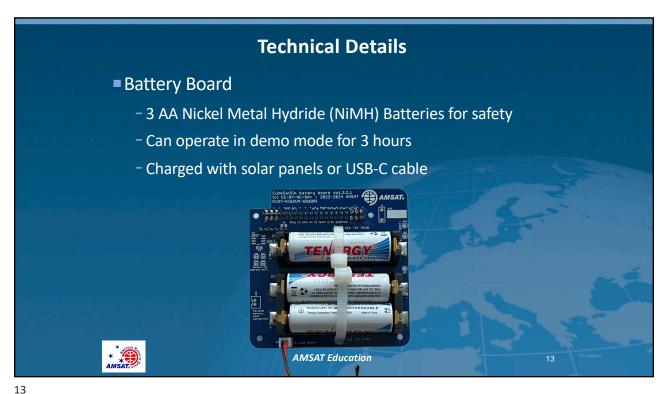
**CubeSatSim Project Survey Results** ■ Received 59 responses from What do you use as a Ground Station? builders or purchasers of PCBs Answered: 57 Skipped: 2 ■Gathered Feb – May 2024 Other (please specify) ■ Average rating of 9.0/10 Radio Ground Station Raspberry Pi ■How would you rate the CubeSat Simulator as a learning tool on a scale of 1 - 10 where 10 is best? ■ Most issues fixed by Beta ■ Ground Station question shows PC or Mac Ground Station need for more support for PC or **Mac Ground Station AMSAT Education** 

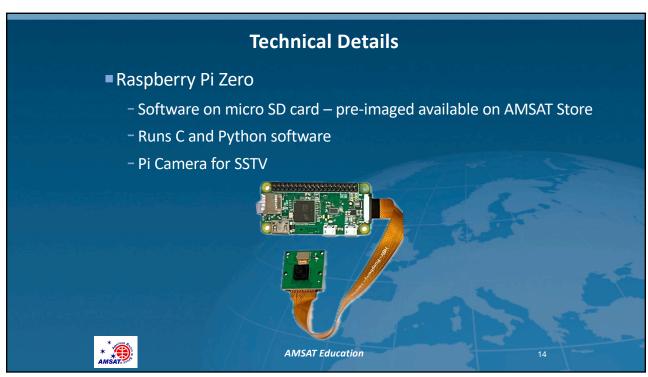


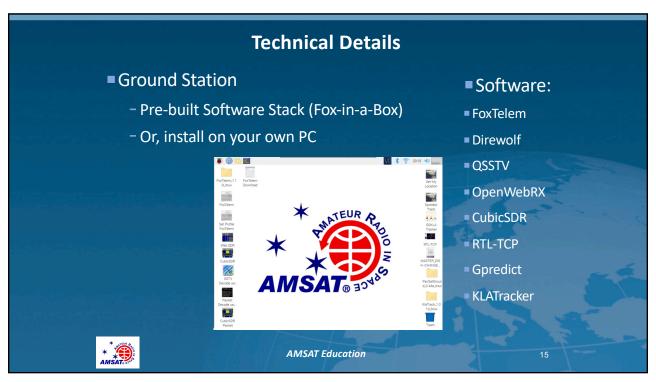


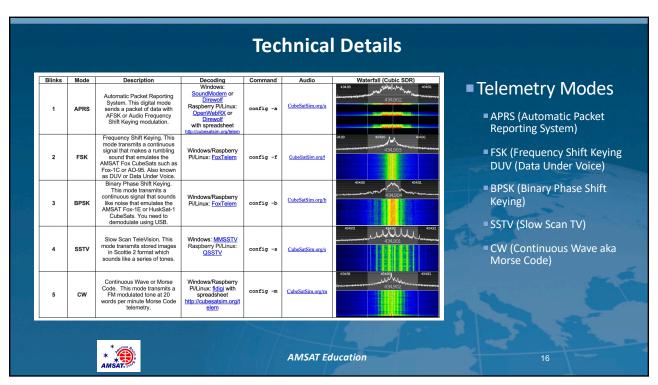


















## Acknowledgements

- ■Thanks to Mark Spencer, WA8SME, for his trailblazing work on CubeSat simulators for the ARRL and to Bob Bruninga, WB4APR, for ideas and inspiration from his undergrad "LabSat" developments.
- Pat Kilroy, N8PK, was instrumental in getting the CubeSat Simulator project going again.
- We would also like to acknowledge all the open source hardware and software that is a part of the AMSAT CubeSatSim.
- Finally, we would like to acknowledge the support of the AMSAT Board of Directors and the members of AMSAT for their support and encouragement of this project.



AMSAT Education

20