omputers and Safety-Critical Systems Electrical and Computer Engineering Howard University Instructor: Dr. Charles Kim www.mwftr.com/CS2.html

## **MQ-1B Predator Drone Mishap**

**Brief on Mishap** 

- Horn of Africa
- US Air Force Base
- MQ 1-B Predator
- Private Inc. based in CA
- In-flight simulation
- Resulted in Mishap
- Inexperienced Operators
- Equipment Malfunction





Nathaniel A. Sims @02555604 29 September 2014

## **Computer System**





## List of Hazards and Descriptions



- Hardware Component Failure:
- Hot melted epoxy hardened

Sensor Detection Faulty:
 Throttle jammed at normal threshold

3. High Temp > 130 C-Low thermal conductivity in epoxy

- 4. Excessive engine heat checklist
  - Shut engine down
- Engine high fuel burn ratio
  Engine should have been
  disengaged



