HARDWARE ONLY CONTROLLER

Perry Pederson Senior Cyber Security SME Pederson Enterprises LLC





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AURORA

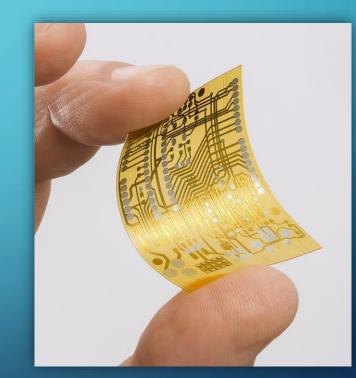
https://www.muckrock. com/news/archives/20 16/nov/14/auroragenerator-testhomeland-security/



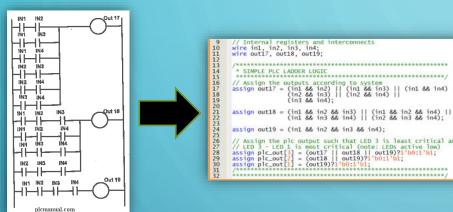


PROGRAMMING IN 1948





HAWC PHASE I



Device List	
	Sensor Status
	Send

- Basic safety ladder logic with sensor input and alarm status output
- Converted to Verilog Hardware Definition Language (HDL) to load onto the Field Programmable Gate Array (FPGA)
- Graphical User Interface (GUI)

HAWC PHASE II

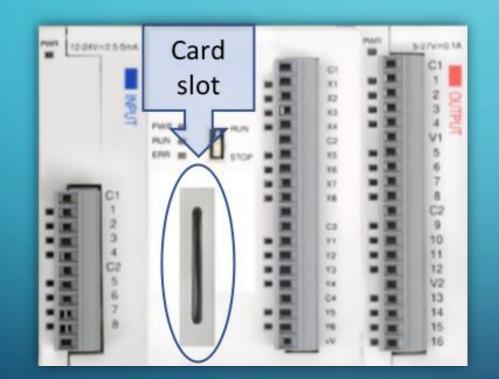
- HAWC protecting a networked video camera
- Demo on YouTube:
- https://www.youtube.com/watch?v =gXEehgW-FyU

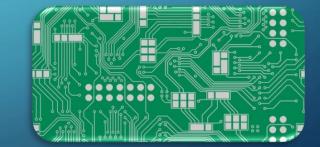




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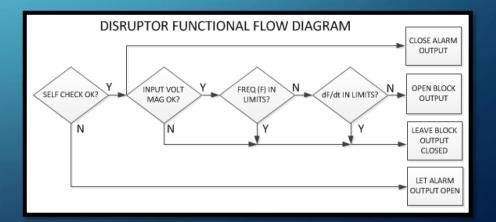
MARKET APPLICATIONS Industrial Control Plant Safety Systems (ICS) **Systems** SAFETY FIRST **Internet of Things** (IoT)

Deterministic cyber protection for high value targets

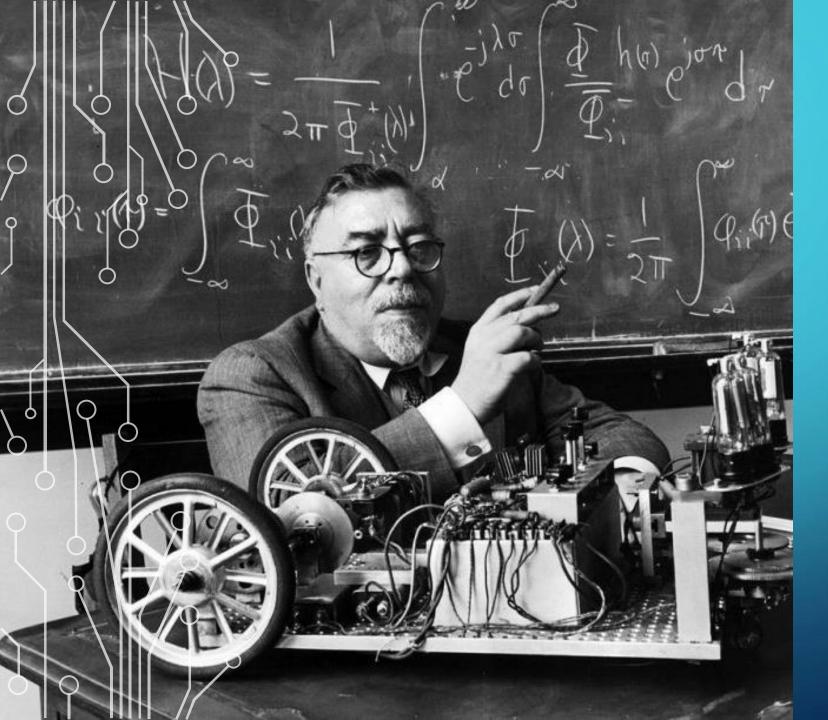
AURORA DISRUPTOR

- Purpose built hardware
- No moving parts/no software
- Deterministic protection implemented with grid physics
- Over 300 units installed in the U.S.
- More information
 - Tim Roxey scubanuke@gmail.com





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FORESIGHT

"We have contributed to the initiation of a new science which, as I have said, embraces technical developments with great possibilities for good and for evil."

Norbert Weiner Cybernetics, 1948



Perry Pederson

Email: perry@pedersonenterprisesllc.com

LinkedIn: https://www.linkedin.com/in/perrypederson/