

Internet of Many Things

Major Oil Company

Major Pipeline Company

John Jenkinson



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First programming job 1962

DoE and DoD defense contractor

US Army

Degrees Physics, Mathematics, Computer Science

Individual Contributor Semiconductor manufacturer 1974-1983 Worked on PhD solid state physics

SOHIO, BP, Alyeska Pipeline Service Company

Mostek first Ethernet adapter PDP Unibus

Mostek better supervisory system than Intel Bigger network than Digital Equipment Corp.

BP Sohio very large VAX clusters

BP Large multinational company first connection to the Internet

Prudhoe Bay and Alaska North Slope oil & gas field instrumentation and control SCADA

Trans Alaska Pipeline

Hostile environment

Pump Station and North Slope field billeting Health stations

Internet on a stick

Microwave fibre FDDI AppleTalk DECnet Wireless

VoIP

Video Conferencing ISDN dry pair

Firewalls facing wrong way

Rogue IP devices

Treadmills

Vending machines

Printers and FAX

Conference Room Calendars

European Gas Pumps

European e-mail

Trading room security

Earthquake Monitoring system

PLC firewalls

SCADA Unidirectional firewall

Forensic Assessment Computer Equipment and Test FACET

Supply Chain

Instrumentation of Network

User Surprise

Instrumentation of the pipe and field

Diesel fuel smart vehicles

Spill

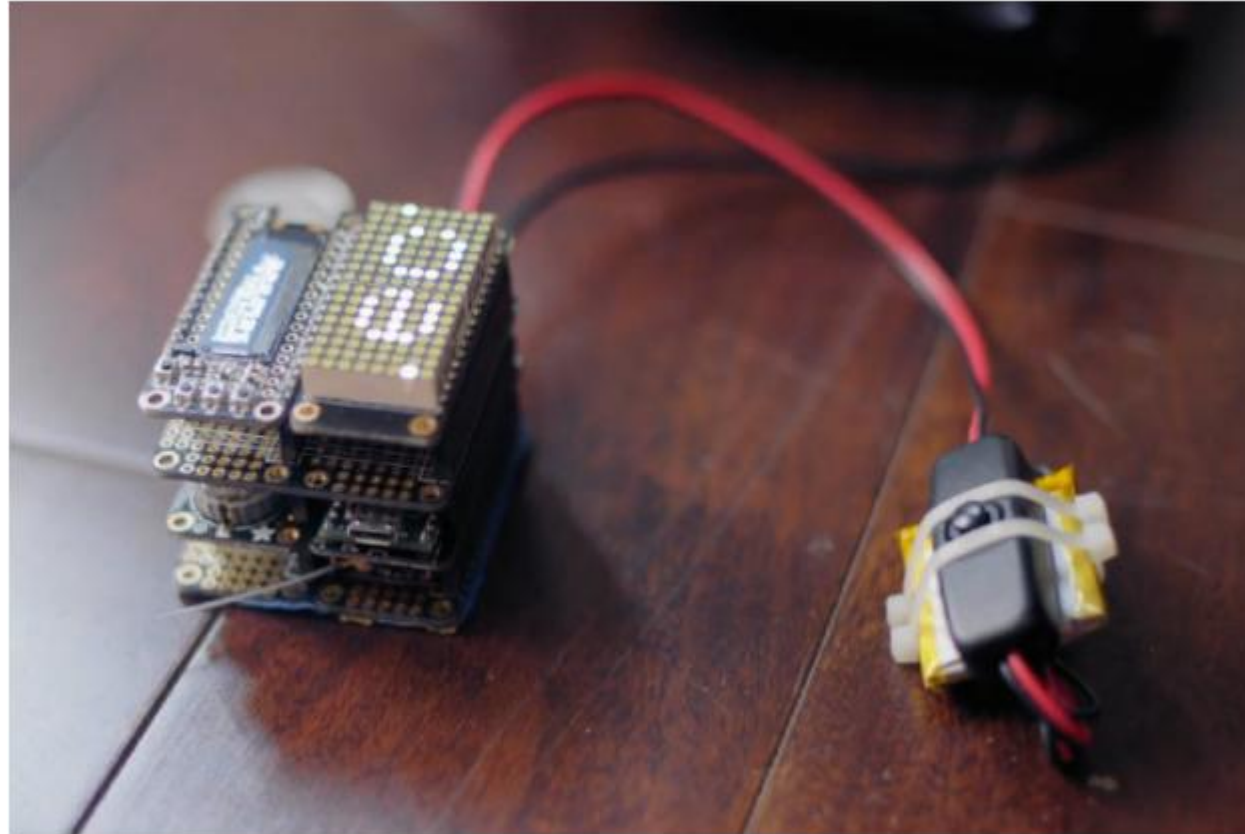
Field teardown

Wildlife

Right of way drones

NO NEED TO SHOOT DOWN DRONES! MANY OF THEM CAN NOW BE HIJACKED

A researcher devised an attack against a popular wireless control protocol called DSMx



The Icarus device can hijack drones that use the DSMx radio control protocol. Credit: Jonathan Andersson/Trend Micro

Researchers hack Philips Hue smart bulbs from the sky

Send in the drones.

