THE **WIDOWMAKER**

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# How Old is Antiquated?

Are we all driving classic Porsches?

- What's the age of a chip?

- How fast do circuits degrade

- How is security affected?

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# Technical Driving, or Technically Driven?



New cars drive us, even if they don't.

- This is true of performance *and security*

- Even device engineers get driven

- NXP LPC55s69 Vuln (03/22)

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# How do we Recognize Opportunity?

Opportunity often looks like Work

- We can't get trapped in busywork

- Bugs can *seem* important

- Bug *classes* are the focus

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# Good Engineering = Killing Bug Classes



This starts at the silicon, ends at the server

- Hardware degradation awareness
- Novel ISA augmentations
- RoT ecosystem transparency
- Efficient capability stacks
- More rigid OS->App controls

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