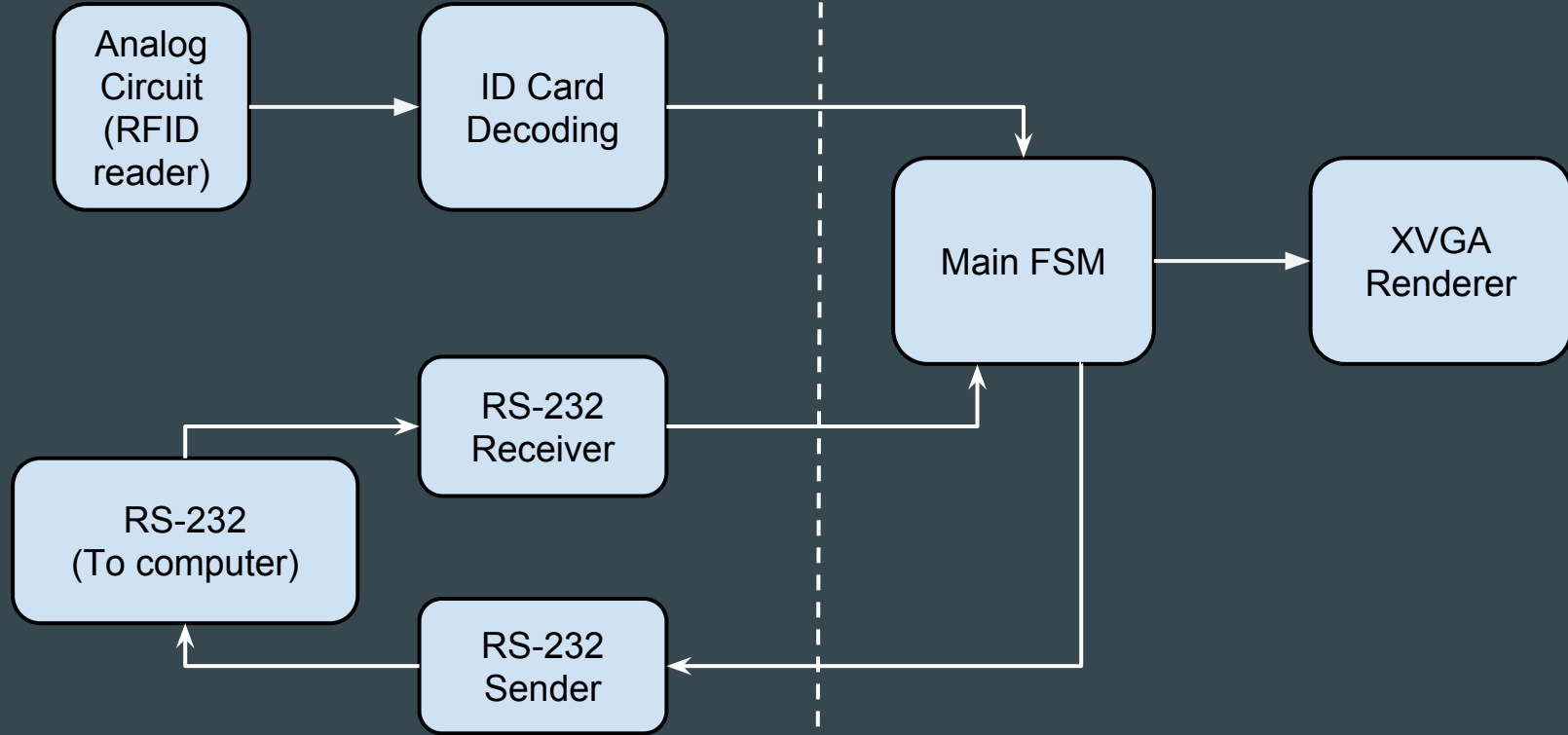


MIT ID Reader

Aneesh Agrawal and Paige Studer

Aneesh

Paige



Block Diagram

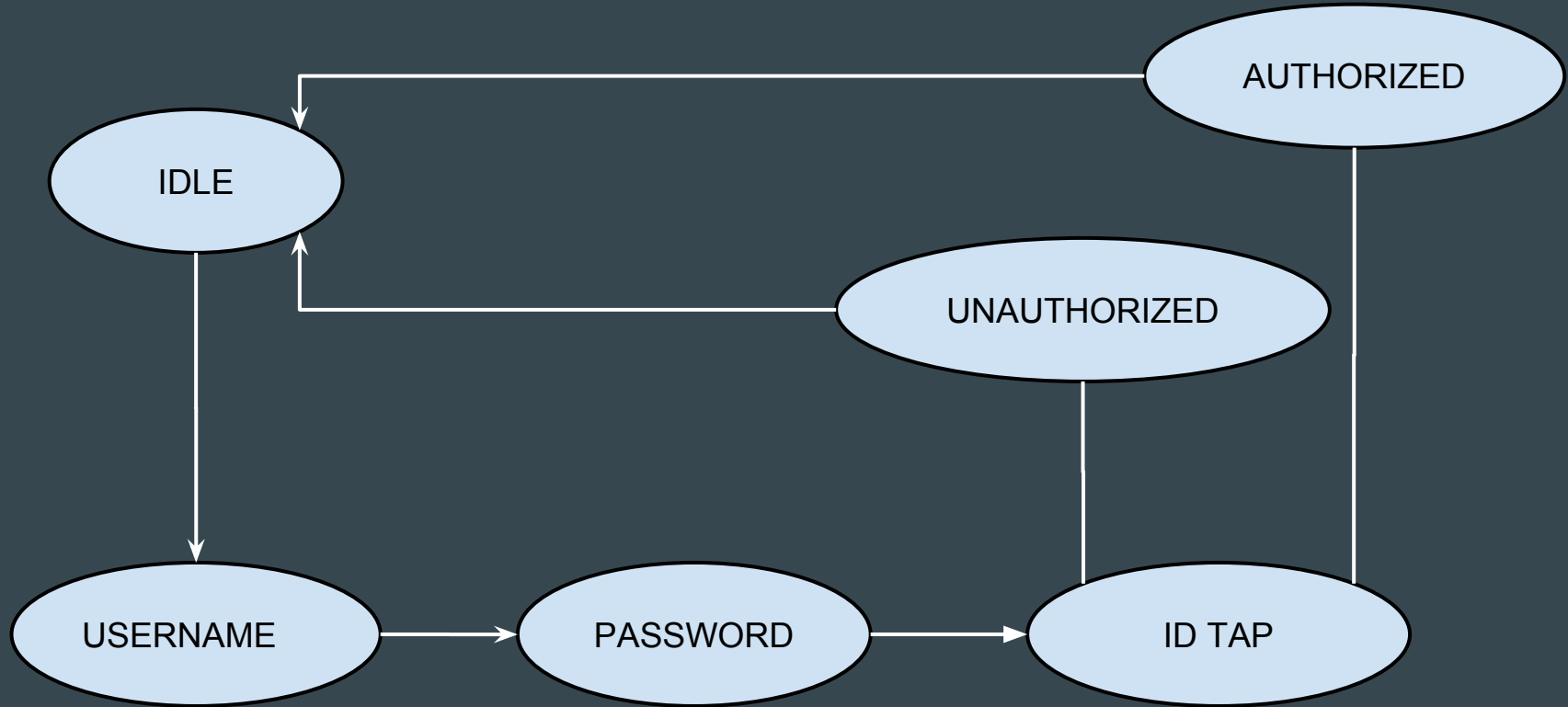
RS-232 Serial Comms

- First factor: username/password
- Log in from a laptop/desktop connected keyboard
- Stretch goals:
 - Challenge-response authentication
 - Line editing

ID Card Reader

- Second factor: MIT ID card tap
- Passive RFID card with PSK and FlexSecure encodings
- Analog Circuitry for reading
- Digital modules for decoding

Main FSM



MIT LOGIN

Username: timbeaver

Password: *****

Please tap ID.



LOGIN AUTHORIZED

Welcome Tim! Here's your joke:

To survive as a power supply designer
you need just two things:
A solid technical background, and CPR.



Stretch Goal: Pictures



Timeline

Week	Aneesh	Paige
Oct 30 - Nov 05	<ul style="list-style-type: none">- Configure git repo- Generate clock IP module- Wire custom antenna- Build ID reader circuit	<ul style="list-style-type: none">- Get basic display- Generate backgrounds- Begin working on sprites
Nov 06 - Nov 12	<ul style="list-style-type: none">- Write ID card modules, test with reader circuit- Generate XADC IP modules	<ul style="list-style-type: none">- Create all basic sprites- Write address calculator module
Nov 13 - Nov 19	<ul style="list-style-type: none">- Write and test serial input and output modules	<ul style="list-style-type: none">- Test display timing- Debug display
Nov 20 - Nov 26	<ul style="list-style-type: none">- Write and smoke test main FSM module	<ul style="list-style-type: none">- Help with main FSM module
Nov 27 - Dec 03	<ul style="list-style-type: none">- Test interaction of ID card, serial and main FSM modules	<ul style="list-style-type: none">- Work on picture extension
Dec 04 - Dec 11	<ul style="list-style-type: none">- Trip to Hawaii	<ul style="list-style-type: none">- Final testing and debugging
Dec 12 - Dec 14	<ul style="list-style-type: none">- Final Demo, Checkoff and Report	

MIT ID Reader

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