



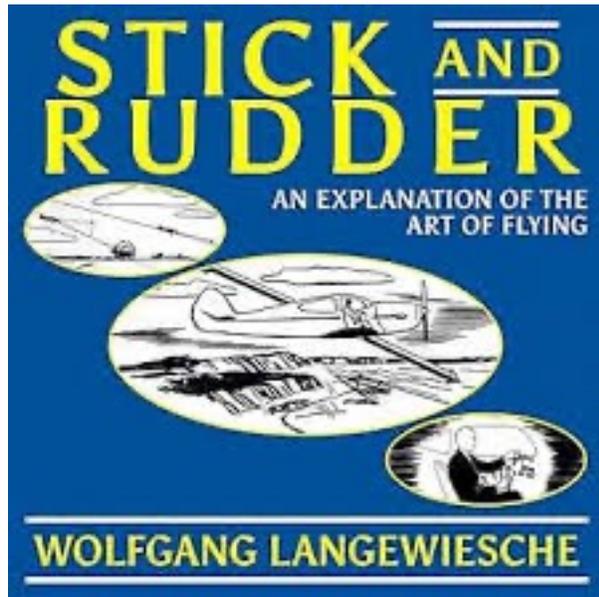
Technology

The Progression of Flight Training

The Past, Present and Future

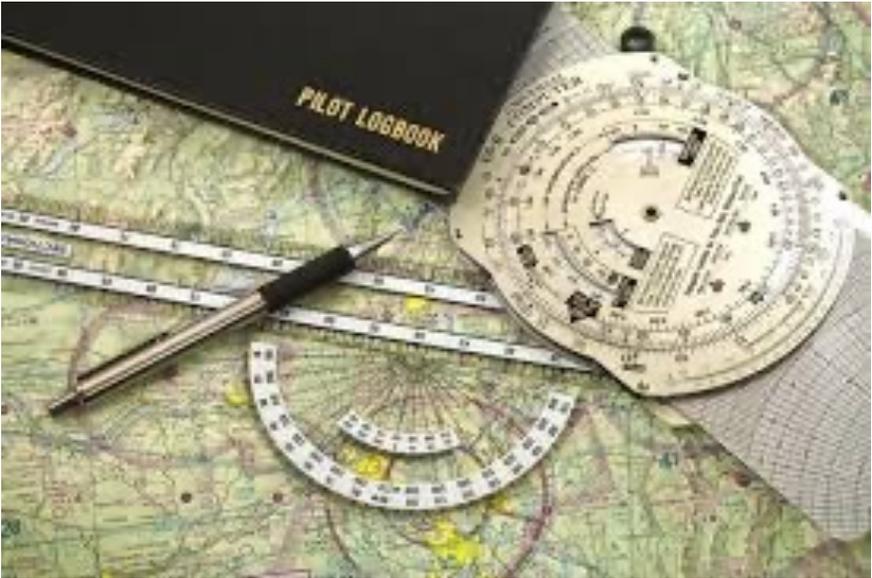
In the Past

Stick and rudder skills



In the Past

E6B and Plotter



In the Past

Limited navigation sources



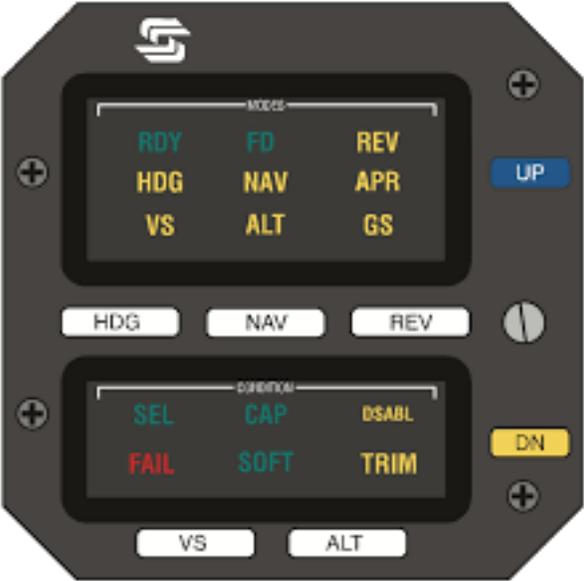
In the Past

Paper Charts



Today

Hybrid training – Stick and Rudder skills to a point. Automation is now taught



Today

Glass cockpits are becoming more dominant



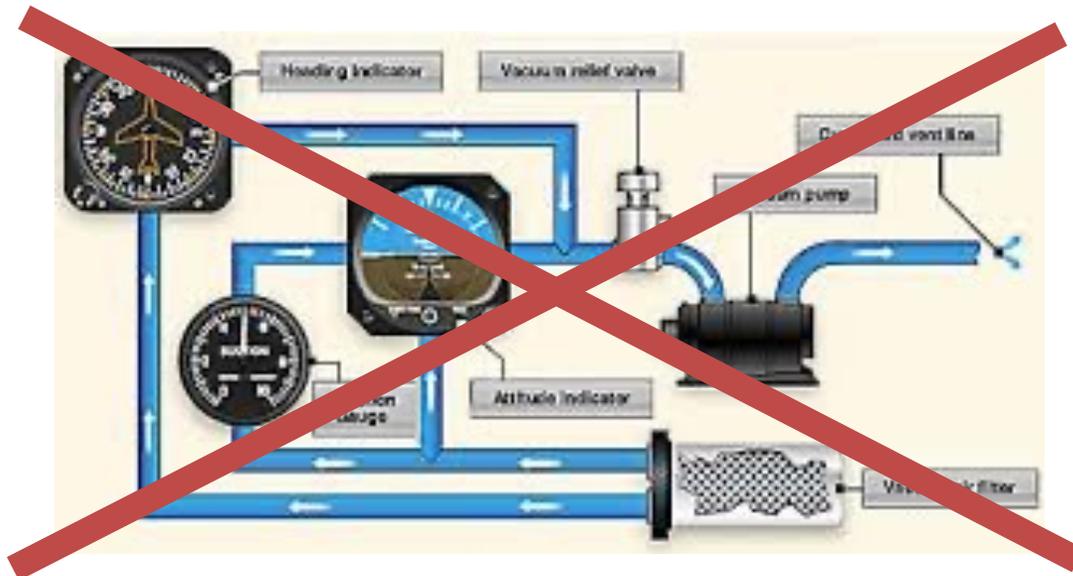
Today

Aging fleet is starting to get upgrades to avionics



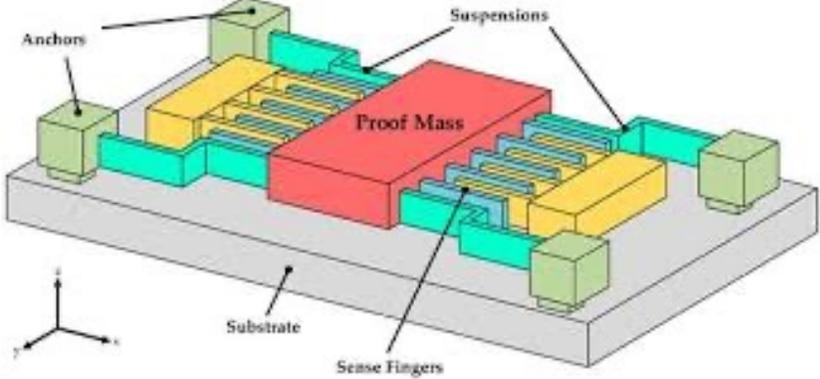
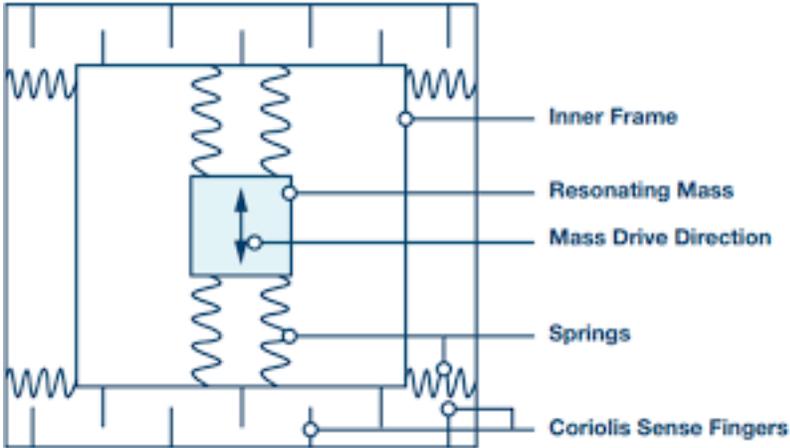
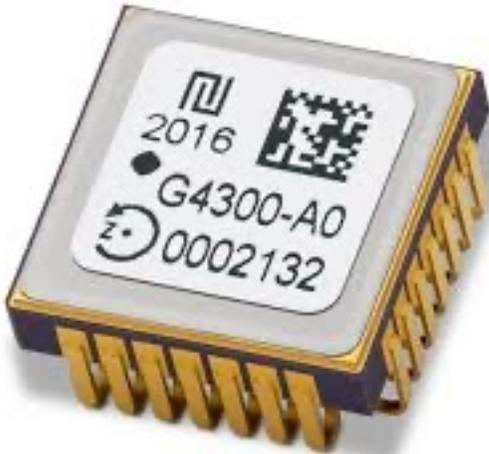
Today

Avionics upgrades eliminate the need for a vacuum system



Today

Solid-State gyros (MEMS) are replacing mechanical ones



Today

EFBs are replacing paper for everything used in the cockpit



Around the Corner

AI is being integrated into EFBs and cockpit functions



Around the Corner

The eventuality of a single-pilot for airlines/corporate



Around the Corner

Garmin already has emergency auto-approach and Autoland systems installed



[Autoland Video](#)

Embedded Video

Around the Corner

Dispatch can now mostly be done using AI

[AI in it's infancy doing dispatch – FAIL!](#)

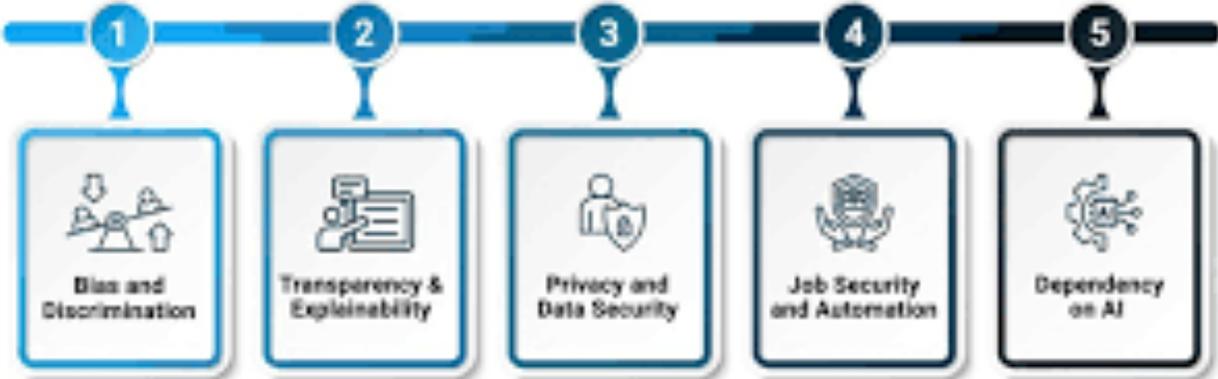
Around the Corner

Airplane system will have AI monitoring and making predictions and suggestions

Around the Corner

Issues include: Ethics, retraining and new job duties

Ethical Challenges of AI in HR



Around the Corner

Most administrative tasks can be nearly completely automated