Automated Theorem Proving for Verifying Cyber-Physical Systems

- B. Akbarpour, L. Paulson: Application of MetiTarski in the Verification of Control and Hybrid Systems

- Alternative approach to other verification techniques:
  - Interactive Theorem Proving, Reachability Analysis, Model Checking, ...

- Formalising the proof of stability of an inverted pendulum with Nichols plot
  - More ambitious student: formal verification of analog circuit