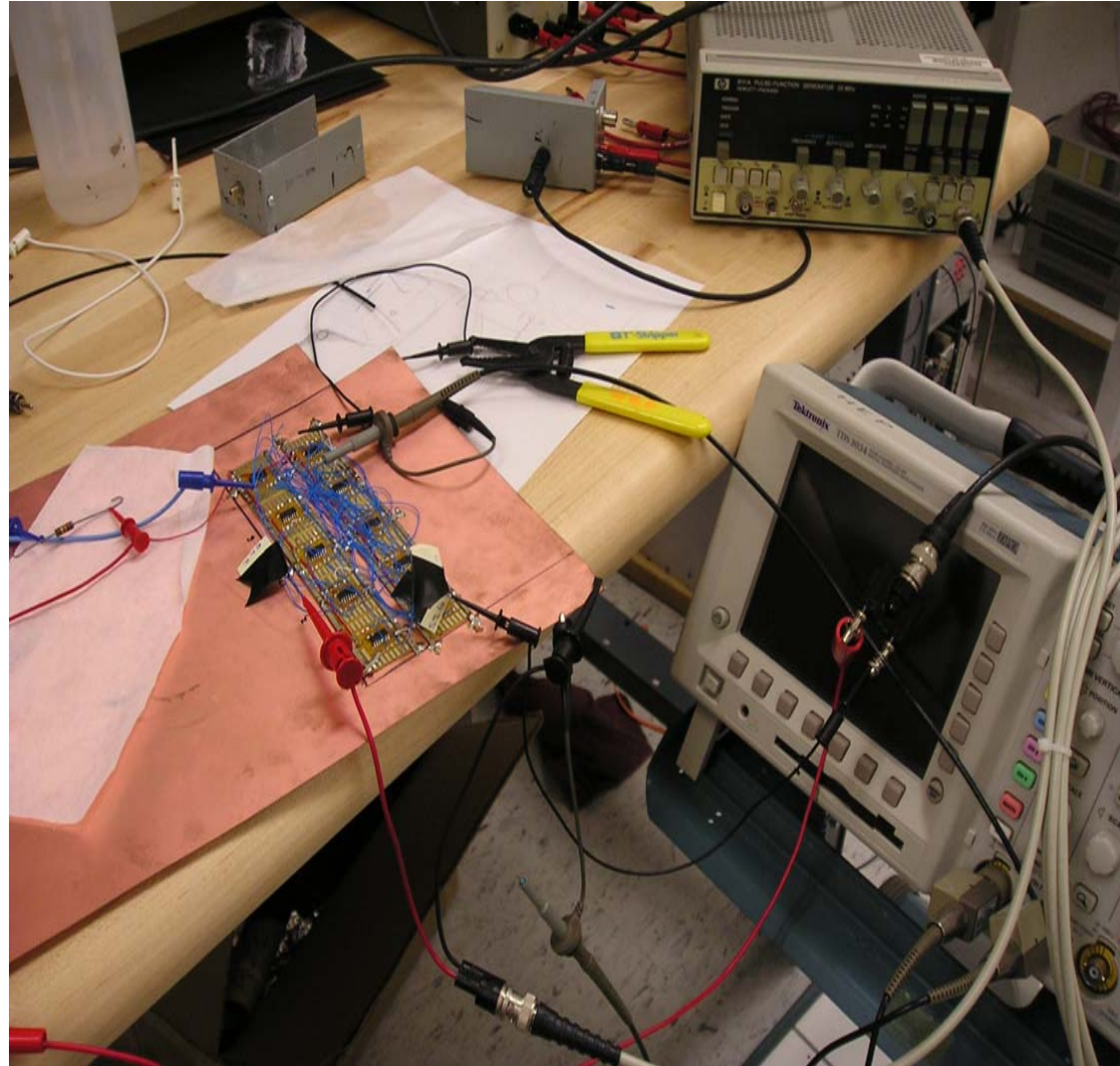


# Neutron Trigger

- **PROGRESS:**
  - **Electronics Fabrication/ Test**
    - Gate Generator (Jimmy)
  - **Synchronized Clock**
    - High Frequency Oscillator and Counter Designed
    - Fabrication (Bobby)
  - **Simulation Work**
    - Complete Trigger Electronics
  - **Packaging**
    - Panel drawing complete (review)

- **Trigger Gate Circuit**
  - Surface mount parts on Surfboards over ground plane.



# NIM Neutron Trigger Panel



TRIGGER (LED):

LIVE (LED):

TRIGGER OUT:

Global Trigger (Lemo)

PULSE IN:

NIM Pulse input (Lemo)

EXTERNAL TRIGGER IN:

CMOS Test input (BNC)

USB CONTROL:

Control Gate time and Pulse count, (other functions?)

Trigger Enable

- Continue Trigger Logic fabrication using Surf Boards
- Build low jitter gate circuit and test
- NIM module panel drawing to shop
- Write LabVIEW USB GUI
  - Sets Gate Time [T]
  - Sets Pulse Count [N]
  - Trigger Enable
  - Software Trigger

- **LED Pulse Stretch Circuit**
  - Design
    - Pulse Integrator and Lamp Driver (Jimmy)
  - Simulation
    - PSpice
  - Incorporate into Trigger design