One of the first computer-based ultrasonic systems at ISU (about 1975)

Tektronix analog oscilloscope

- equivalent time sampling unit
- analog to digital converter
  - digital to analog converters
  - pulser/receiver

Digital Equipment LSI-II computer
- < 1 MHz processor ?
- 32 Kbytes memory
- dual 256Kbyte 8 inch floppy disks

x-y plotter
- pen

y-y plotter
- teletype

Immersion tank (fish tank)
Equivalent Time Sampling

1 msec
(at pulse repetition rate of 1 KHz)

\[ \Delta t = 10 \text{ nsec} \]

pulser fires

pulser fires