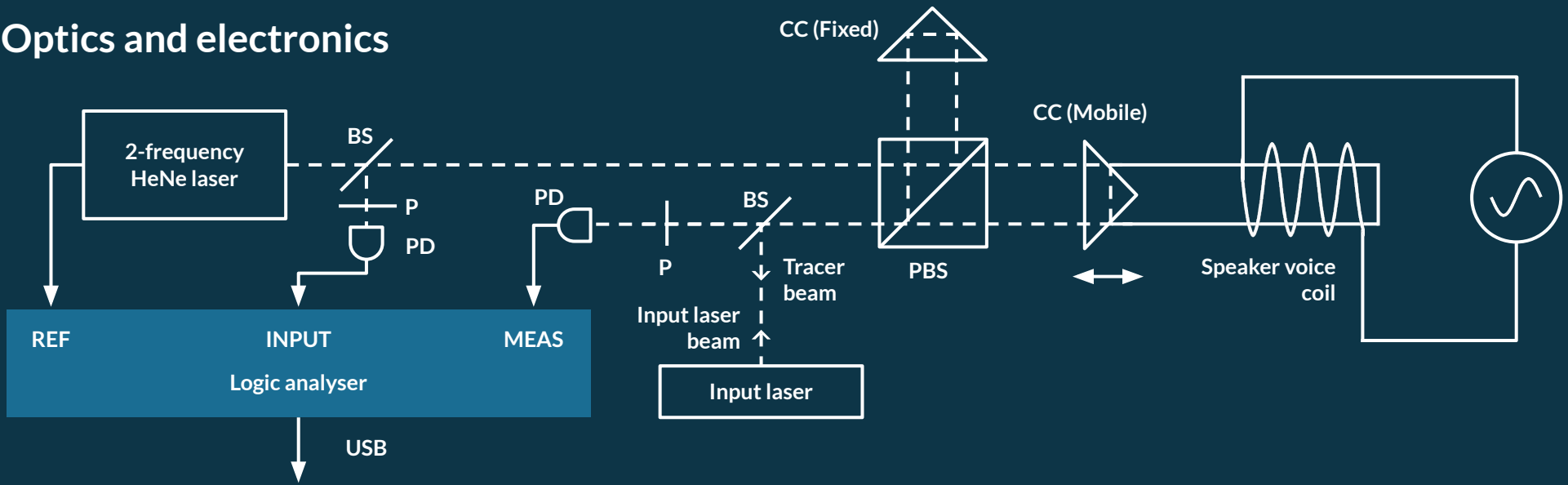# Optics and electronics

2-frequency HeNe laser

BS

P

PD

PD

REF

INPUT

MEAS

Logic analyser

USB

P

BS

Tracer beam

Input laser beam

Input laser

CC (Fixed)

CC (Mobile)

PBS

Speaker voice coil

Software

REF → DPLL → Unwrapped phase → Position tracker → Position → Resampling → IIR Biquad LPF

MEAS → Position tracker

Min/Max

Counting window

INPUT → Fringe counter ← Filtered position

Decimation/Averaging

Wavelength