

BME 311

Biomedical Instrumentation I



05 – Op-amp Example Heart Beat Detector

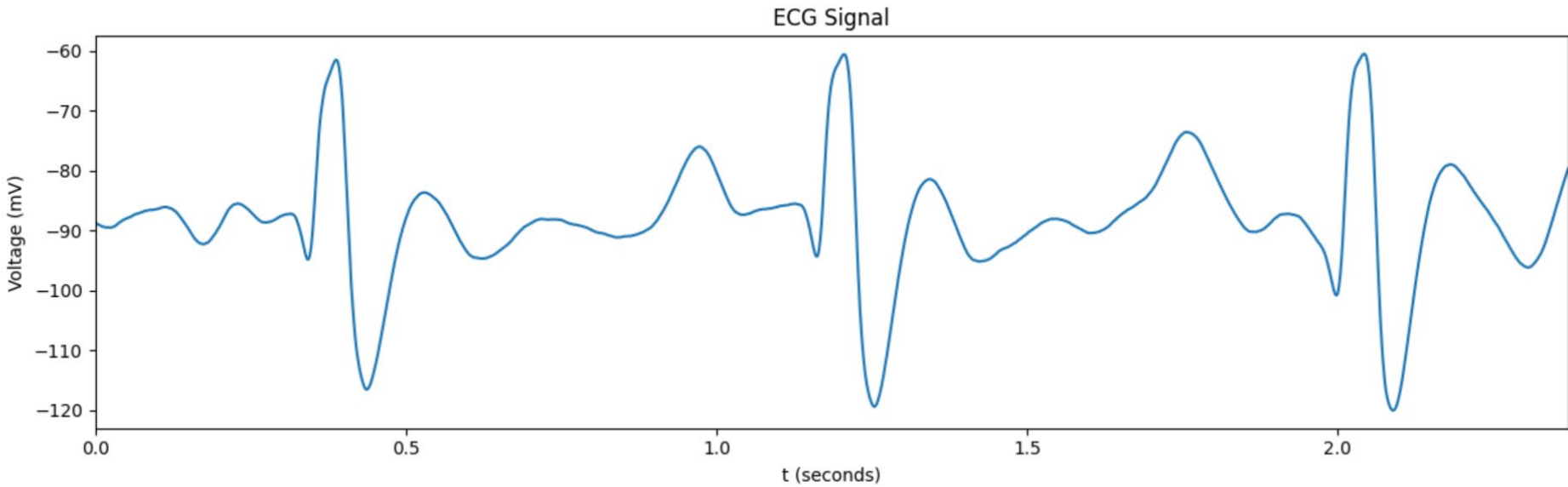


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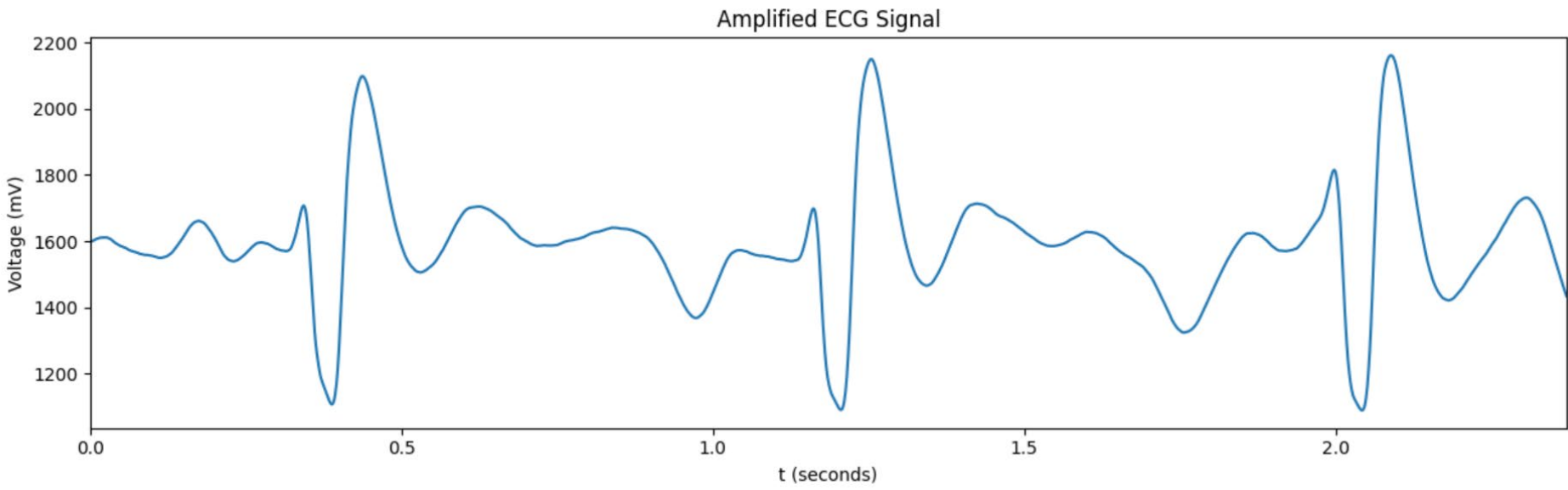
Department of Biomedical Engineering

Dr. Mehmet Yüksekaya

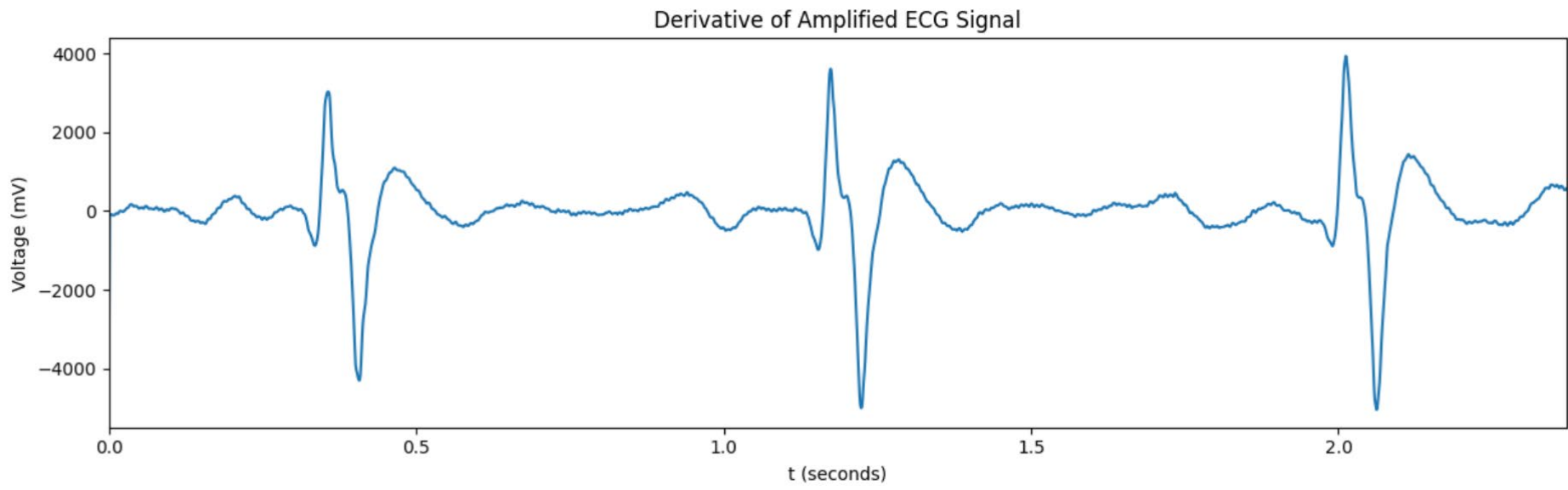
Raw ECG Signal



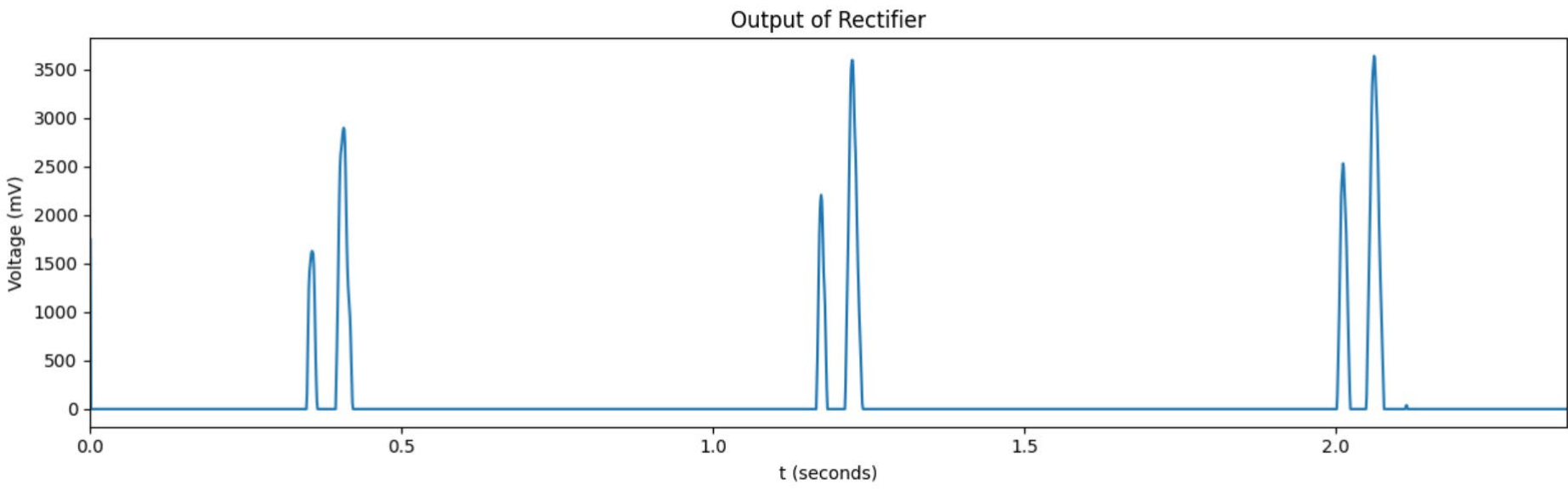
Output of first Amplifier



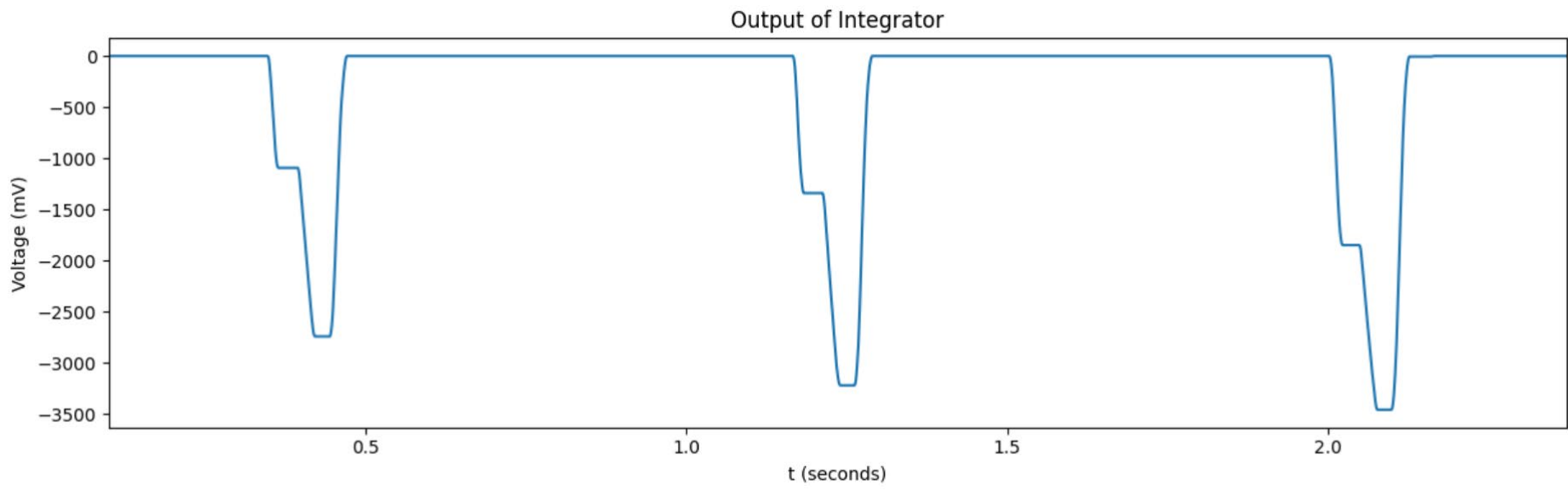
Output of Derivation



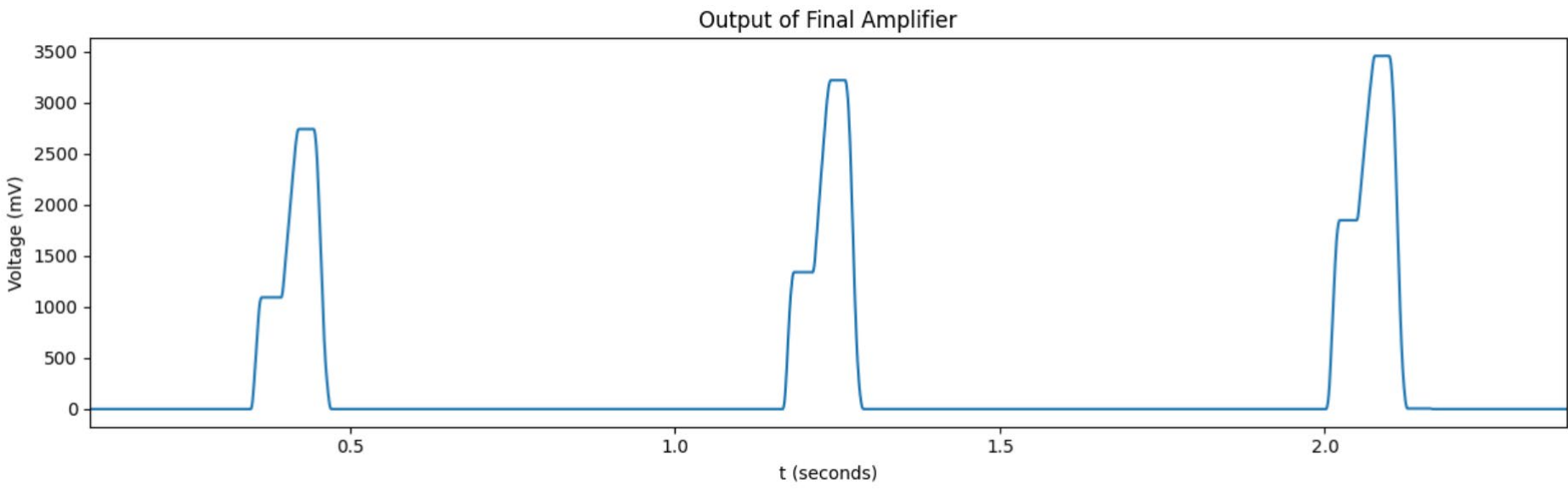
Output of Full Wave Rectifier



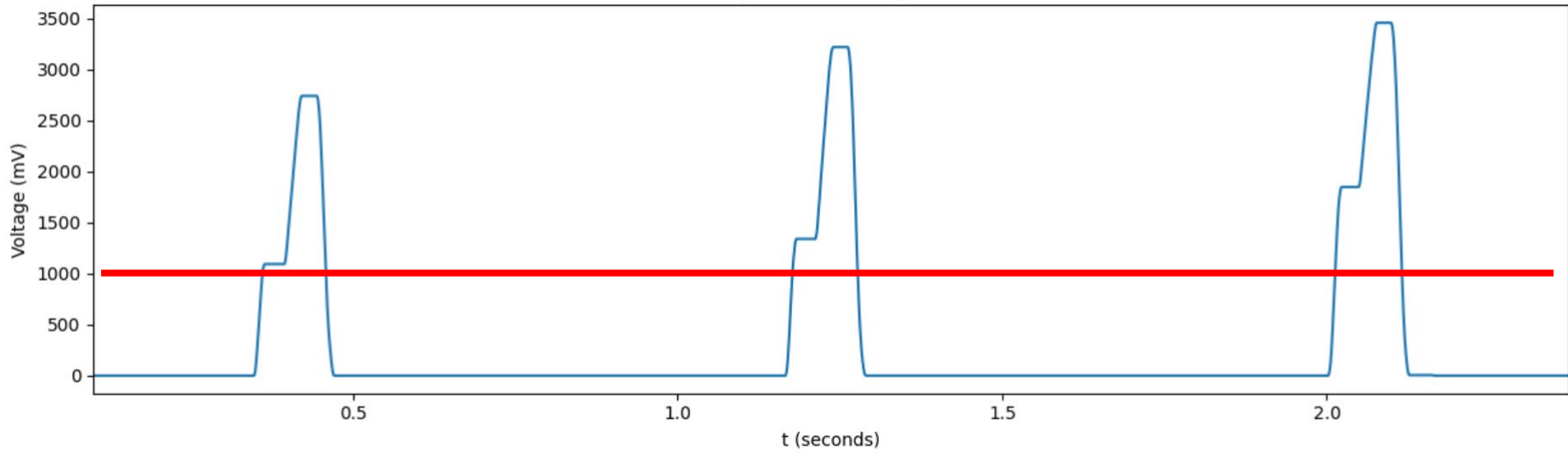
Output of Integrator



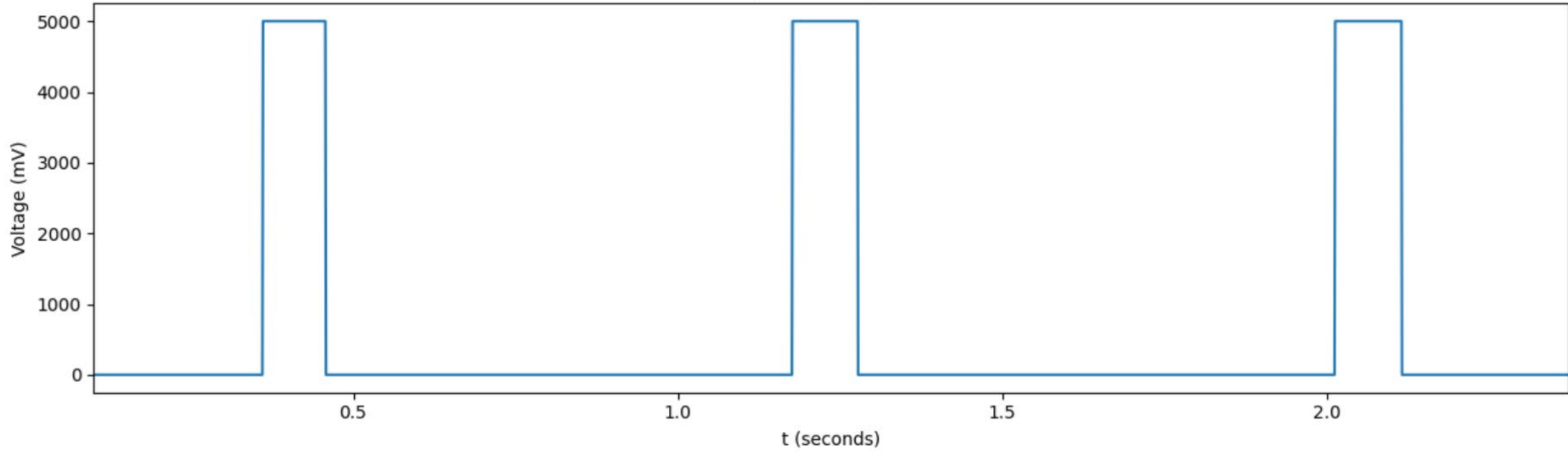
Output of Final Amplifier



Output of Final Amplifier



Output of Comparator



Output of Comparator

