

CERTIFICATE

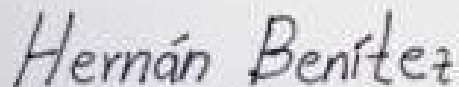
This is to certify that

GALVIS RESTREPO EDUARD

has presented the paper entitled

**Implementation of real time filter using an open-source platform oriented to
r-wave detection**

in the 2016 XXI Symposium on Signal Processing, Images and Artificial Vision (STSIWA)
held in Bucaramanga, Colombia, from 31 August – 2 September, 2016




Hernán Benítez

Ing. Hernán Darío Benítez, PhD
President of the IEEE SPS Colombian Chapter



Ing. Miguel A. Altuve, PhD
STSIWA 2016 General Chair



Luis Angel Silva

Ing. Luis Angel Silva, PhD
STSIWA 2016 Program Chair