Supporting Information

for

All 3D-printed stretchable piezoelectric nanogenerator for self-powered sensor application

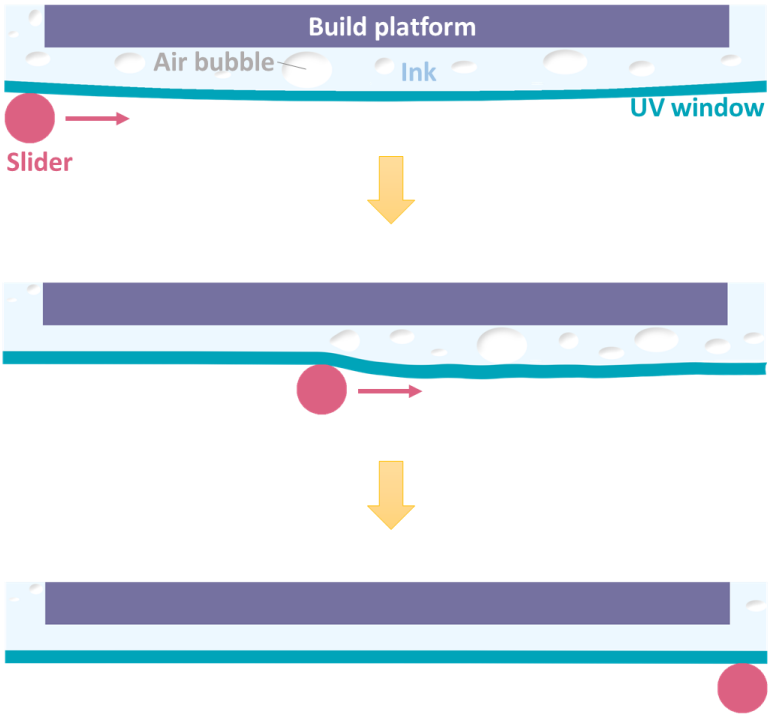

Figure S1. Schematic of the air bubble removal by the sliding process in DLP.

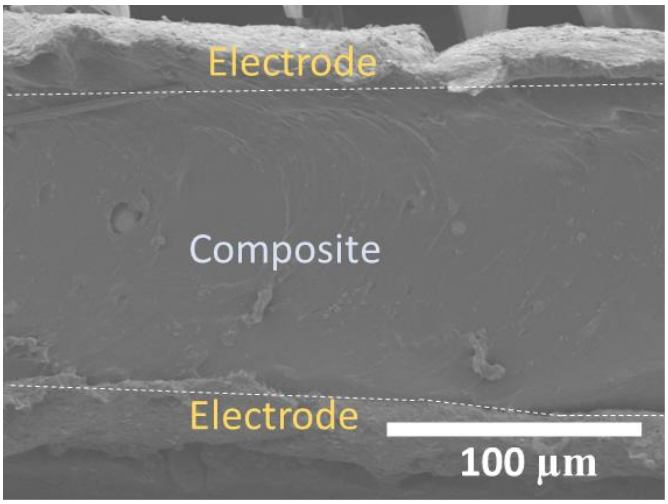

Figure S2. SEM image of the cross-section of the device.

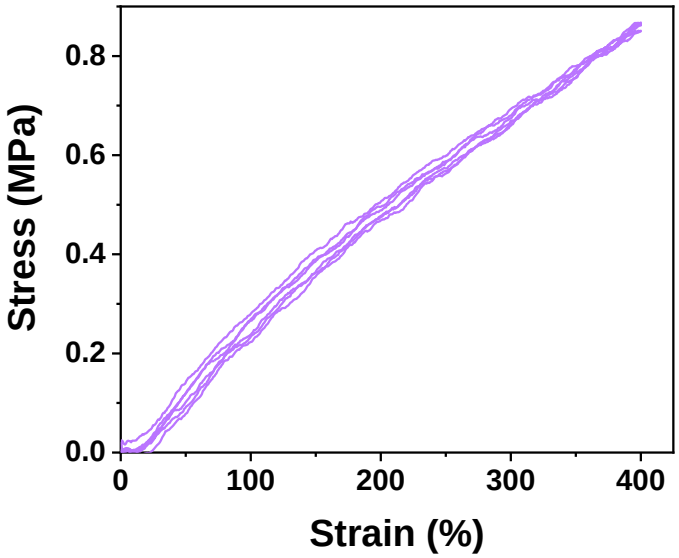

Figure S3. Cyclic tensile testing of the $BaTiO_3$ NP/EAA/AUD composite (three cycles).

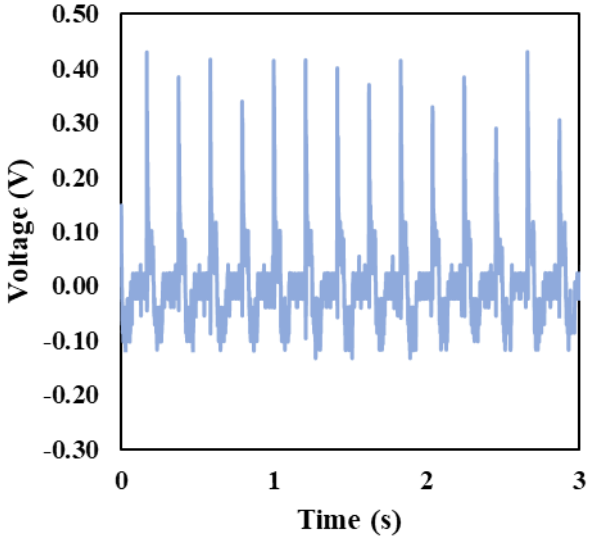

Figure S4. Output voltage under 60 N force and 5 Hz frequency of stretched sample at 100 % strain.

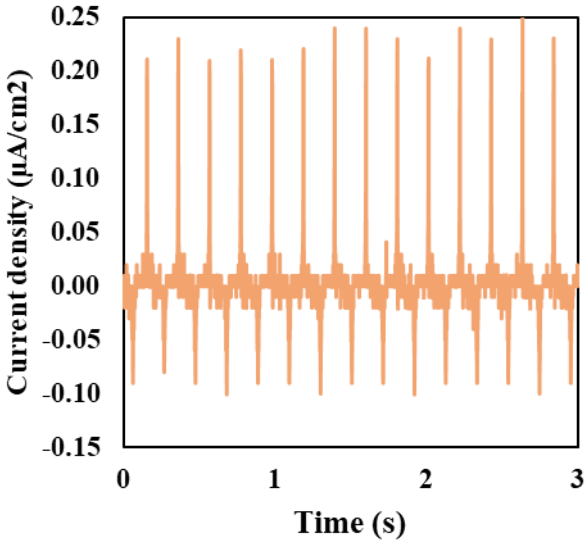

Figure S5. Output voltage under 60 N force and 5 Hz frequency of stretched sample at 100 % strain.

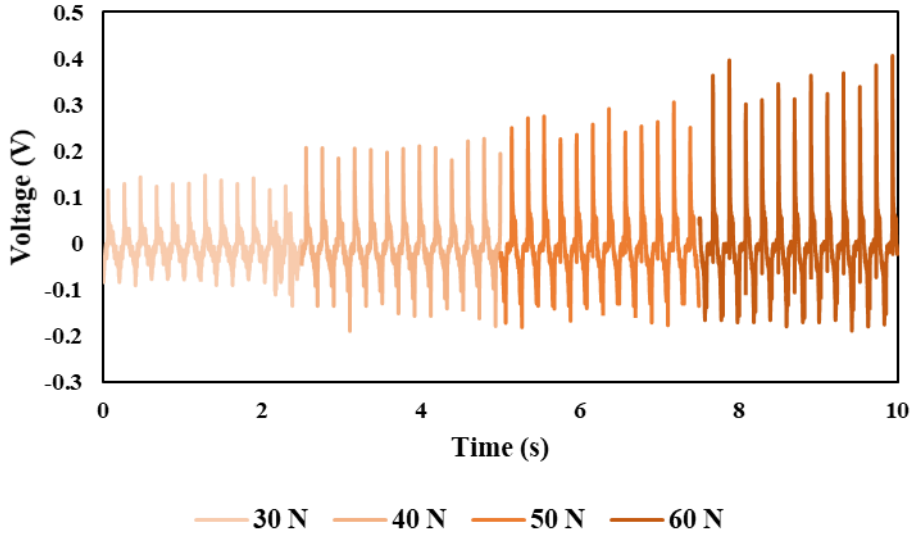

Figure S6. Output voltage under 30 N to 60 N forces and 5 Hz frequency of stretched sample at 50 % strain.

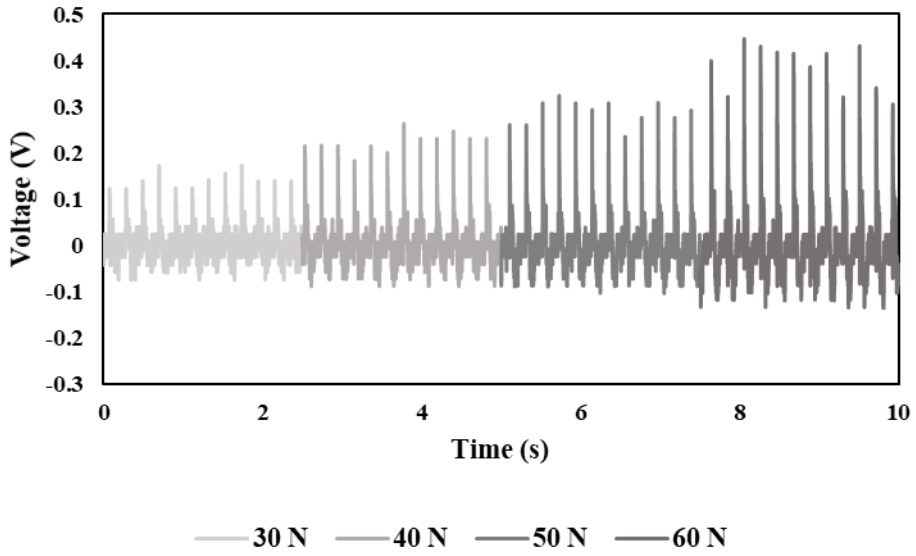

Figure S7. Output voltage under 30 N to 60 N forces and 5 Hz frequency of stretched sample at 100 % strain.

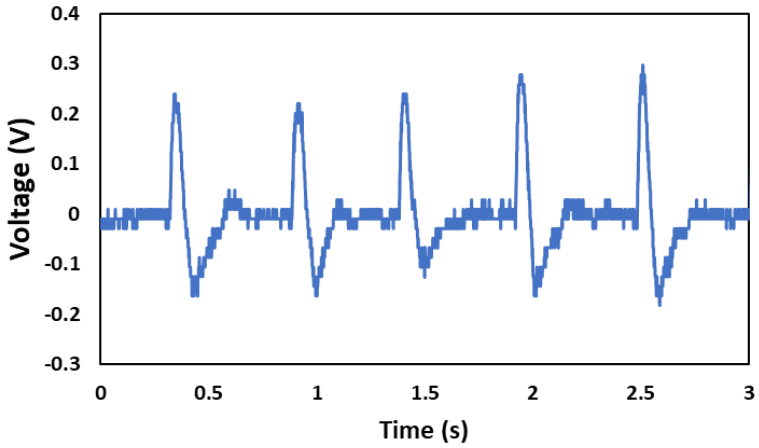

Figure S8. PENG device used for self-powered physiological monitoring of foot stepping.