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I am a Postdoctoral Research Associate at University of Nova Gorica, Slovenia, working on charge-transport measurements of blends of organic semiconductors and graphene for **OFETs** and **OPVs**. Prior to this appointment, I worked as a Postdoctoral Research Associate at University of Colorado, Boulder, USA working on charge-transport measurements of organic semiconductors and organic liquid crystals. In my doctoral studies, I developed, implemented, and tested, a type of cognitive circuit, termed Polymer Neuromorphic Circuitry. The circuit was based on organic memristors, OFETs, and organic resistors.

I have extensive theoretical and practical experience relating to fabrication, on both small and large scale, using processes such spin-, spray-, drop-, blade-coating, and 2D and 3D photolithography, thermal and e-beam evaporation, and characterization of organic/polymer electronics devices, including **OFETs** (using standard, 3-terminal measurements and time of flight measurements) (P3HT, PQT-12, NOBOW, OBTTT, and BTBT-based, as wells as blends of graphene), **OBDs/WORMs** (organic memristive devices based on either PEDOT:PSS, PMMA + ZnO QD, or copolymer of PS-b-PMMA doped with PCBM, as the active layer), **OPVs** (P3HT:C60; P3HT:PCBM; P3HT:HPIBT; P3HT:ORTBT; P3HT:OCETBT as the bulk heterojunction) and **OLEDs** (with Ir(mppy)₃ as the active layer), fabricated without and with self-assembled monolayers (DT, FDT, OTS). I have experience fabricating all of these devices on inflexible (glass) and flexible (PET, PEN) substrates. I also have experience with fabricating PEDOT:PSS-based pressure/bend sensors. I furthermore have experience in synthesizing ZnO nanoparticles as well as system's engineering, based on organic and conventional electronics devices.

Sincerely,

Robert A. Nawrocki