Skills and Knowledge in Electronics

- ➢ Certificate of professional qualification in electrical engineering of Decree No 50/1978 of the Czech Office for Occupational Safety and the Czech Mining Authority, Section 4

- ➢ small PCB design and realization also using Electronics CAD

- ➢ reading schematics & device datasheets; worked with JTAG and older CPU emulator probes

- ➢ use of lab instrumentation such as oscilloscope, wave generator, logic analyzer, digital/analog multimeter

- ➢ support and repairing of Matrox graphics boards

- ➢ designed and prototyped analog and digital cables like RS232, RS485; ad hoc I/O cable to connect intelligent GSM, Z80, RCM3700 and LP3500, SBCs, Raspberry PI, ESP32, CAN transceiver, GPS; graphic boards' cables and switches

- ➢ maintenance of AT, VESA, MCA, PCI and other expansion boards for PC

- ➢ 40-wire parallel cable designed to interface National Instruments AT-DIO-32F and Intel 8255 based boards, to ELV I/O boards (VEGA launcher project), designing and implementing a bespoke 32 bit parallel high-speed data transmission

- ➢ Three-roller calender for metal pipes manufacturing, based on MOS Technology 6502 microprocessor, with rotary and linear encoders and two motors for each roller

- ➢ Ultrasound soldering machine for plastic materials (6502 based) with motorized soldering head, head pressure sensor, time based ultrasound emission

- ➢ X-ray photograph conveyor belt (6502 based) equipped with rotary and linear encoders, backlighted panel and two motors

- ➢ PROM-EPROM-EEPROM programming and substitution; microprocessor and integrated circuit handling such as memory upgrades, coprocessor installation, etc.

- ➢ mounting and maintenance of PC keyboards and 6502 based PLC

professional e-mail: giannipucillo@giannipucillo.it - personal e-mail: giannipucillo@gmail.com
career website: http://www.giannipucillo.it/career - professional website: http://www.giannipucillo.it