Diego Dorta

Software Engineer | Free Software Enthusiast | 5+ years of experience working with C, Python, and AI/ML.

Personal Details

34 José Perina, Jardim São Vicente, Campinas, SP, Brazil | +55 19 999 880 902 | | | |

Professional Experience

NXP Semiconductors | Automotive, Security, IoT

- **System and Application Engineer at System Engineering Team** | **August, 2018 to February, 2021**
  - *Artificial Intelligence and Machine Learning Applications Developer (TensorFlow, Scikit-Learn, PyTorch)*;
    - Most relevant work: *A Python Demo Framework for eIQ on i.MX Processors*.
  - *User Interface and Multimedia Applications Developer (Qt, GTK, GStreamer)*;
  - *Bootloader (U-Boot) and Kernel Driver Contributer (Ethernet, USB), Root File System (Buildroot, Yocto)*.
- **Research and Development Intern at MPU Team** | **June, 2016 to July, 2018**
  - *Development of Machine Learning Applications, Open Source Contributions and Documentation Review*.
    - Most relevant work: *Creating Qt Application for i.MX Embedded Systems*.

Brazilian Synchrotron Light Source | CNPEM

- **Computer Engineering Intern at Beamline Software Group** | **January, 2014 to December, 2015**
  - *Scientific Instruments and Driver Applications Developer*.
    - Most relevant work: *Published EPICS Drivers for Scientific Instruments*.

Academic Background

- University of Campinas (*M.E, Artificial Intelligence and Machine Learning*) | **Present**
- Pontifical Catholic University of Campinas/UniMetrocamp (*B.E, Computer Engineering*) | **August, 2018**

Language Skills

- **Portuguese** (*native*), and **English** (*Proficient*);
- Learning by curiosity **Spanish/French/Italian/Japanese/Chinese** (*pre-intermediate*).

Technical Skills

- **Programming Languages and OS**
  - Proficient in *C*, and *Python*. Competent in *C++*, and *Java*. Advanced knowledge on GNU/Linux System.
- **Other Hard and Soft Technologies**
  - *AsciiDoc*, *Markdown*, *Git*, *Docker*, *Bash*, *EPICS*, *POSIX*, *GCC*, *Clang*, *Licences*.

Technical Writing

Trainings & Presentations

- **October, 2020**
  - AI/ML Online Presenter at SIEEL (*USP, and Ufscar*) (Campinas, SP)
- **December, 2019**
  - Linux Kernel Support Presenter at Institute of Computing (*Unicamp*) (Campinas, SP)
  - i.MX Hands-on Presenter at NXP (Campinas, SP)
    - *NXP Hands-on LKCamp Material.*
- **August, 2019**
  - AI/ML Presenter at NXP Tech Days (Irvine, CA, and Austin, TX)
    - *eIQ i.MX Hands-on Material.*
- **November, 2018**
  - AI/ML Introduction Online Presenter for SE Team (Austin, TX)
- **November, 2017**
  - i.MX Hands-on Presenter at FTF Brazil (São Paulo, SP)

Publications & GitHub Projects

- **2020**
  - *Open Source Tool for Generating AsciiDoc Document Template.*
  - *GPU Applications Running on i.MX 8 Boards Using Docker and Ubuntu/Debian Distros.*
- **2019**
  - *Experimental, Small and Flexible C++ Machine Learning Library for Embedded Systems.*
- **2018**
  - *Image Writer Tool for Embedded Systems.*
  - *How to Measure Network Speed and Bandwidth on i.MX.*
  - *OpenCL Examples for Calculating Vectors on Embedded Systems.*
- **2016**
  - *Boot Time Research Enhancement.*
    - *Booting i.MX6 Under One Second.*
    - *How to Decrease Boot Time on iMX6.*
- **2015**
  - *Py4Syn Keithley 6485 Electrometer Support.*
  - *Py4Syn Keithley 6514 Electrometer Support.*
  - *EPICS Medipix Input/Output Controller.*
  - *Medipix CERN Server.*
- **2014 - 2010**
  - Check out this folder for older codes for fun and learning only.