

#sodacon2020

IEEE SA and Open Source

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- ☐ The Institute of Electrical and Electronics Engineers (IEEE) World's Largest Professional Association, Advancing Technology for Humanity
- □ 420,000 members in 160 countries
- ☐ 46 technical societies and councils in 160 countries
- ☐ 1,800 annual conferences hosted
- ☐ 4M+ technical documents published.
- □ Standards: Over 1100 active standards and over 600 standards under development (LAN/MAN/WiFi, floating point, VHDL, JTAG)
- □ Industry Connections: incubates new standards and related products and services by facilitating collaboration among organizations.
- □ Conformity Assessment: develops and implements programs that couple standards development activities with conformity assessment activities, which help to accelerate market adoption while reducing implementation costs.



## Background



IEEE Members have had an interest in open source code implementation, guidance and have already participated in or currently Participating in OS projects –

- ☐ IEEE Humanitarian Group
- ☐ IEEE Technical Activities
- ☐ IEEE Standards

Discussion among various IEEE OUs and IEEE Legal and Compliance, it was realized that there was an need to formalize the IEEE OS development and provide a platform for this work where IEEE groups can voluntarily engage.







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**IEEE 1076-2019** - VHDL: VHSIC Hardware Description Language Analysis and Standardization

**P2791:** Standard for bioinformatics Computations and Analysis Generated by High-Throughput Sequencing (HTS) to Facilitate Communication

P1752: (Open mHealth): Open Mobile Health Standard for Mobile Heath Data led by the Executive Director from Open Mobile Health which has a focus on making data more accessinility through an open standard, open source tools and open source community and seeks to utilize IEEE Open Source Platform to help achieve their goals.

**P9274.1.1 (xAPI):** xAPI Base Standard – JavaScript Object Notation (JSON) Data Model Format and Representational State Transfer (RESTful) Web Service for Learner Experience Data Tracking and Access



## **EFFORTS**

- **☐** IEEE Open Source Environments
- GitLab (pilots)
- GitHub
- ☐ IEEE Staff and Legal Support
- > Josh Gay, IEEE Standards Open Source Community Manager
- > External counsel with expertise in open source
- **□** Outreach
- Leading Open Source organizations
- Open Source conferences

