



# TECHNOLOGY SYMPOSIUM

APRIL 27, 2023

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# Agenda – Intellectual Property Track

- **10:10 AM – 10:15 AM**

Welcome – Marc Canel / Imagination Technologies

- **10:15 AM – 11:00 AM**

Panel Discussion 2022 Projects

- Marc Canel / Imagination Technologies
- Allen Cox / Silicon Catalyst
- Paul Karazuba / Expedera

- **11:00 AM – 12:10 PM**

IP Interest Group Introduction

Open Discussion

- **12:10 PM – 1:30 PM** Lunch

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# Intellectual Property Interest Group

- Neutral platform for collaboration
- Innovation framework with peers, partners and customers
- No formal process – Not a standards body
- Open to members and non-members of GSA
- Calls every other month – next call in May 2022
- Generate materials of general interest – Outreach
- No confidential information

# IP Interest Group Participating Companies



# Intellectual Property Interest Group

- Objective: one white paper for each topic
- White paper:
  - document of 6 to 8 pages
  - High level document
  - Brain storming exercise to reflect the views of the authors of the document
  - Describes high level challenges and recommendations for industry coordination
  - Educational
- Working group per white paper
  - Willing contributors join the working group – Ideally 4 to 5 individuals
  - Identify an editor that will pull the materials together
  - Present their progress at the bi-monthly calls

# TECHNOLOGY SYMPOSIUM

## Marc Canel



*Vice President, Strategy & Business Development*

*Imagination Technologies*



# TECHNOLOGY SYMPOSIUM

## Allan Cox



*Advisor*

*Silicon Catalyst*





# TECHNOLOGY SYMPOSIUM

## Paul Karazuba



*Vice President, Business Development*

*Expedera*



# Intellectual Property Interest Group – 2022 Projects

**1. IoT Data as IP**

**- Marc Canel**

**2. Heterogeneous system**

**- Paul Karazuba**

**3. Digital BOM and SBOM**

**- Rob Brown**

**4. Analog IP**

**- Allan Cox**

**• White Papers – finalized and published on GSA website**

**<https://www.gsaglobal.org/ip/resources/>**

# TECHNOLOGY SYMPOSIUM

## EMTECH Panel Discussion



**Marc Canel**

*Vice President*

*Strategy & Business Development*

**Imagination**

**Allan Cox**

*Advisor*

**Silicon Catalyst**

**Paul Karazuba**

*Vice President*

*Business Development*

**Expedera**

# Intellectual Property Interest Group

## 2023 projects

**1. Security in AI systems**

**- Vincent Van Der Leest (Intrinsic ID)**

**2. IP Trends in Semiconductors**

**- Marc Canel (Imagination Technologies)**

**3. Connectivity & Packaging**

**- Praneetha Poloju (Microsoft)**

# Intellectual Property Interest Group

## Security in AI systems

- Cybersecurity and role of AI
- AI & Security in automotive applications
- Business model for IP and Security implementation
- Chip security (chip counterfeit) and Factory IP Security
- IP management, Enterprise infrastructure for IP Management in Semiconductors,
- Security in IP and Design, and management of IP lifecycle
- Protection of IP in AI systems
- Traceability Digital Rights Management. Digital watermarking.

⇒ Overall scheme to protect AI/ML systems ?

⇒ Should the industry take a formal position on the topic ?

# Intellectual Property Interest Group

## IP Trends in Semiconductors

- Patents
- Outsourcing IP vs. internal development for ASICs
- RISC-V and open source IP
- Embedded memory
- AIoT (low power endpoint) IP trends.
- Development Operations and Automation of SOC Verification
- Democratization of technology using IPs and bring in innovation coming from around the globe.
- eFPGA IP
- Chiplets

⇒ Discuss key trends emerging, landscape of the industry

# Intellectual Property Interest Group

## Connectivity & Packaging

- Analog and mixed signal IP
- High speed communication IP interface trends
- Wireless connectivity trends
- Die-package (interposer) - PCB codesign
- Immersion memory trend (ex. FRAM, RRAM, MRAM....etc)
- Advanced packaging progress

⇒ Landscape of the industry and trends

⇒ Coordination and harmonization

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**Open Discussion**



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**Networking Lunch**

**Program will resume at 1:20 PM**

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