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## San Diego Joint Chapters of IMAPS & ACerS

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**Friday, February 21<sup>st</sup>, 2020, 1:00 – 2:00 at SDSU**

### **AI Platform - Hardware and Software Integration for Precise Maneuverability”**

**Presented by: Shield AI’s Mr. Mark White, Principle Engineer**

#### **Abstract**

The AI era is here. Unlike Artificial Intelligence for Cybersecurity or Analytics, Shield AI is focused on the idea of AI for Maneuver and the deployment of artificially intelligent assets in GPS denied environments. Creating intelligent hardware products will offer unprecedented advantage in operationalizing AI.

In this talk, we will explore the motivation and challenges of designing custom hardware to facilitate AI. Integrating hardware with software to achieve AI for Maneuver requires an understanding of sensors and problems and their most basic level. Modeling the fundamental blocks of sensor behavior enables an accurate interpretation of their data as it reflects the world around our systems. Problems arise when high speed digital systems must coexist in close proximity to each other and to high power systems. Rules of thumb and generic guidelines are not sufficient for the complex platforms that Shield AI delivers.

#### **Biography**

Mr. Mark White is a principal engineer at Shield AI, leading the electrical team. Mark started his career designing switched mode power supplies for various aerospace companies, focusing on modeling, control, and EMI reduction. Prior to joining Shield, he led hardware research and development of wireless power solutions for consumer electronics and medical devices at Qualcomm. At Shield AI, Mark focuses on the architecture and design of all electrical systems. His main interests are in signal integrity, EMI, and circuit design. He has over 20 patents filed and holds an MS and BS in electrical engineering from Rensselaer Polytechnic Institute.

#### **Logistics:**

**Friday, February 21, 2020 at 1:00 – 2:00 PM. Lunch will be provided.**

**Location: San Diego State University, Student Services West Room SSW-1500**

**Registration Required. Space is limited to registered registrants due to room size; please sign up quickly.**

\$20.00 for members. \$25.00 for non-members. \$0 for students with an ID. Will send map upon registration.

Registration closes Thursday, February 20, at 1:00pm

**[Register here](#)** , questions please contact Bill Ishii ----- [bill@imaps.org](mailto:bill@imaps.org)

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