



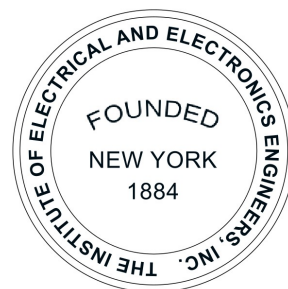
## *Certificate of Appreciation*

*This is to certify that*

*Karen Hanson Akua*

*Volunteered as an Ambassador in the IEEEExtreme 19.0  
programming competition that hosted +19,000 participants*

*25th October 2025*



A handwritten signature in black ink, appearing to read "Kathleen A. Kramer".

**Kathleen A. Kramer**

*IEEE President 2025*