Opening: Graduate Research Assistant – M.S. student in the School of ECE.

PI: Dr. W. Hong Yeo, Associate Professor and Woodruff Faculty Fellow, Mechanical Engineering and Biomedical Engineering at Georgia Tech, and Director of the IEN Center for Human-Centric Interfaces and Engineering (CHCIE) at Georgia Tech.

Job description: Dr. Yeo’s group is looking for ECE Master’s students interested in working on wearable electronics for future healthcare. Selected candidates would get the opportunity to work with wearable hardware, fabrication, and human-centric integration skills. The roles would involve interdisciplinary electronics design and wearable software development for intelligent systems for Healthcare.

Ideal candidate: Has a solid background in both electronics (analog, digital circuit design) and software for embedded systems. Holds a rich experience in firmware development, primarily in C and C++

Candidates Should Possess Skills in

-Hardware:
Expertise in PCB design, fabrication, and testing
Proficient in embedded systems programming, especially in C and C++
Prior research experience with microcontrollers (NRF52, MSP, STM32, ATMega128, Arduino)
Proficient in communication protocols including SPI, I2C, UART, Bluetooth, Zigbee
Ability to operate digital multimeters, oscilloscopes, power supplies, and function generators with precision.

Software:
Profound knowledge in deep learning, well-versed with frameworks like PyTorch/TensorFlow
Hands-on experience in API development and understanding of RESTful services.
Knowledge of version control tools, preferably Git.
Experience in extensive machine learning-related research, covering areas such as deep learning, statistical learning, online learning, and reinforcement learning

Be a part of a cutting-edge team where innovation and creativity are highly valued. Your contributions will not just be recognized but celebrated!

PI bio: Dr. Yeo is a Woodruff Faculty Fellow, Associate Professor in the Mechanical Engineering and Biomedical Engineering, and the Director of the IEN Center for Human-Centric Interfaces and Engineering at Georgia Institute of Technology. His research focuses on the areas of nano-microengineering, soft materials, molecular interactions, and biosystems, with an emphasis on nanomembrane bioelectronics. Dr. Yeo received his Ph.D. in mechanical engineering at the University of Washington, Seattle. Afterward, he was a postdoctoral research fellow at the University of Illinois at Urbana-Champaign. Dr. Yeo has published over 130 peer-reviewed articles, including many in top-quality journals, including Nature Materials, Nature Machine Intelligence, Nature Communications, and Science Advances. In addition, Dr. Yeo is an IEEE Senior Member and a recipient of a number of awards, including multiple NIH R01 Awards, NIH Trailblazer Young Investigator Award, IEEE Outstanding Engineer Award, Emory School of Medicine Research Award, Imlay Innovation Award, Lucy G. Moses Lectureship Award, Sensors Young Investigator Award, American Heart Association Innovative Project Award, and Outstanding Yonsei Scholar Award.

If interested and qualified, please e-mail your application to Dr. Yeo (whyeo@gatech.edu)