**Review panels and schedule**

*Team General idea*

Haonan Chen, Mengxuan Li, Jinghan Huang Detect and react to eye fatigue with cameras, sensing, and image analysis. Advisor: Mark Butala

Design review panel: Mark Butala, Simon Hu, KD Schewe

Review time: 9:30am Tuesday

Peer review: Robot detection for Robomaster

Zibo Lin, Junhan Zhao, Mingrui Zhu Control and operation of nanofiber manufacturing device. Advisor: Huan Hu

Design review panel: Huan Hu, O. Penkov, Jiahuan Cui

Review time: 10:30am Tuesday

Peer review: SCR team

Tianyi Meng, Sicong Yu, Ziming Huang Virtual reality surgery training system with physical manipulator. Advisor: Liangjing Yang

Design review panel: Liangjing Yang, Chushan Li, Simon Hu

Review time: 9:30am Wednesday

Peer review: AI dance team

Yuhui Xu, Yuhang Ren, Ke Liu Air quality monitoring device and network. Unattended device, with wireless interface, to monitor several key air quality measures.

Advisor: Simon Hu

Design review panel: Simon Hu, Huan Hu, Hongwei Wang

Review time: 9:00am Tuesday

Peer review: Voice controlled surgery arm

Enyi Jiang, Tingou Liang, Heyuan Li Acoustic noise monitoring system and app. Monitor sound in a dormitory environment and provide feedback and alarms based on time and other considerations. Advisor: Hongwei Wang

Design review panel: Hongwei Wang, KD Schewe, Mark Butala

Review time: 11:00 am Tuesday

Peer review: Virtual reality surgery trainer

Shihao Su, Xihang Wu, Xiangwei Shen “SCR Blue Box” low-level timing function box to control a three-phase SCR set, with user interface, to implement educational circuits.

Advisor: Chushan Li

Design review panel: Chushan Li, Santosh Singh, Mark Butala

Review time: 10:00am Tuesday

Peer review: Fatigue detection team

Yifan Chen, Ziyang Xu, Chao Xu AI dance teacher with skeleton models and wearable haptic feedback. Advisor: Wee Liat Ong

Design review panel: Wee-Liat Ong, Liangjing Yang, Santosh Singh

Review time: 9:00am Wednesday

Peer review: Air quality team

Ximin Chen, Run Zhang Voice controlled surgical arm.

Advisor: Santosh Kumar Singh

Design review panel: Santosh Singh, Wee-Liat Ong, Shurun Tan

Review time: 11:30am Tuesday

Peer review: Noise alarm team

Xin Jin, Jiaqi Xing, Zhenbang Wu Detect appropriate personal protection equipment and evaluate body temperature and ID information for persons entering sensitive sites (health care, construction, etc.). Advisor: Shurun Tan

Design review panel: Shurun Tan, Huan Hu, Oleksiy

Review time: 9:00 am Monday

Peer review: Nanofiber team

Jinghua Wang, Jintao Sun Robot detection and vision system for Robomaster robot. Advisors: K.D. Schewe, Jiahuan Cui

Design review panel: K.D. Schewe, Jiahuan Cui, Shurun Tan

Review time: 9:30am Monday

Peer review: Detect PPE team

**Peer review assignments**

Haonan Chen, Mengxuan Li, Jinghan Huang Detect and react to eye fatigue with cameras, sensing, and image analysis. Peer review assignment: SCR team

Peer review time: 10:00am Tuesday

Zibo Lin, Junhan Zhao, Mingrui Zhu Control and operation of nanofiber manufacturing device. Peer review assignment: PPE detection team

Peer review time: 9:00am Monday

Tianyi Meng, Sicong Yu, Ziming Huang Virtual reality surgery training system with physical manipulator. Peer review assignment: Noise alarm team

Peer review time: 11:00am Tuesday

Yuhui Xu, Yuhang Ren, Ke Liu Air quality monitoring device and network. Unattended device, with wireless interface, to monitor several key air quality measures.

Peer review assignment: AI dance trainer team

Peer review time: 9:00am Wednesday

Enyi Jiang, Tingou Liang, Heyuan Li Acoustic noise monitoring system and app. Monitor sound in a dormitory environment and provide feedback and alarms based on time and other considerations. Peer review assignment: Voice controlled surgery arm

Peer review time: 11:30am Tuesday

Shihao Su, Xihang Wu, Xiangwei Shen “SCR Blue Box” low-level timing function box to control a three-phase SCR set, with user interface, to implement educational circuits.

Peer review assignment: Nanofiber team

Peer review time: 10:30am Tuesday

Yifan Chen, Ziyang Xu, Chao Xu AI dance teacher with skeleton models and wearable haptic feedback. Peer review assignment: Virtual reality surgery trainer

Peer review time: 9:30am Wednesday

Ximin Chen, Run Zhang Voice controlled surgical arm.

Peer review assignment: Air quality team

Peer review time: 9:00am Tuesday

Xin Jin, Jiaqi Xing, Zhenbang Wu Detect appropriate personal protection equipment and evaluate body temperature and ID information for persons entering sensitive sites (health care, construction, etc.). Peer review assignment: Robot imaging for Robomaster

Peer review time: 9:30am Monday

Jinghua Wang, Jintao Sun Robot detection and vision system for Robomaster robot. Peer review assignment: Fatigue detection team

Peer review time: 9:30am Tuesday

**Faculty assignments**

Mark Butala Fatigue detection, noise alarm, SCR

9:30am Tuesday, 11:00am Tuesday, 10:00am Tuesday

Jiahuan Cui Robot detection, nanofiber

9:30am Monday, 10:30am Tuesday

Huan Hu Nanofiber, air quality, PPE detection

10:30am Tuesday, 9:00 am Tuesday, 9:00am Monday

Simon Hu Air quality, fatigue, surgery trainer

9:00am Tuesday. 9:30am Tuesday, 9:30am Wednesday

Chushan Li SCR, surgery trainer

10:00am Tuesday, 9:30am Wednesday

Wee-Liat Ong Dance teacher, voice controlled arm

9:00am Wednesday, 11:30am Tuesday

Oleksiy Penkov Nanofiber, PPE detection

10:30am Tuesday, 9:00am Monday

KD Schewe Robot detection, fatigue detection, noise alarm

9:30am Monday, 9:30am Tuesday, 11:00am Tuesday

Santosh Singh Voice controlled arm, SCR, dance teacher

11:30am Tuesday, 10:00am Tuesday, 9:00am Wednesday

Shurun Tan PPE imaging, voice controlled arm, robot detection

9:00am Monday, 11:30am Tuesday, 9:30am Monday

Hongwei Wang Noise alarm, air quality

11:00am Tuesday, 9:00am Tuesday

Liangjing Yang Surgery trainer, dance teacher

9:30am Wednesday, 9:00am Wednesday