



**VM 450 Design and Manufacturing III**  
**VE 450 Major Design Experience**

UM-SJTU Joint Institute, Fall 2019

Design Review #3, Fall 2019, Nov.20

**Oral Presentation Schedule & Room Assignment**

Team No.	Project Title	Time	Room	Judges
1	GUI Test Automation by Image Recognition	2:00pm-2:10pm	D311	Prof. Mian Li Prof. Yong Long TA: Jin Huangfu
2	Research and Implementation of Video Dewarping and Mosaic for multi-Camera System	2:10pm-2:20pm	D311	Prof. Mian Li Prof. Yong Long TA: Jin Huangfu
3	Develop VR view by images	2:20pm-2:30pm	D311	Prof. Mian Li Prof. Yong Long TA: Jin Huangfu
4	Scalable Automated AI for IT Operations	2:30pm-2:40pm	D311	Prof. Mian Li Prof. Yong Long TA: Jin Huangfu
5	Deep Learning Foundation in FFmpeg	2:40pm-2:50pm	D311	Prof. Mian Li Prof. Yong Long TA: Jin Huangfu
6	Cloud gaming based on Akraino ICN Edge Stack	2:50pm-3:00pm	D311	Prof. Mian Li Prof. Yong Long TA: Jin Huangfu
7	Depth camera based gesture cryptosystem	3:00pm-3:10pm	D311	Prof. Mian Li Prof. Yong Long TA: Jin Huangfu
8	Multi-source Transportation Data Mining for Improving Ride-hailing User Experience	3:10pm-3:20pm	D311	Prof. Mian Li Prof. Yong Long TA: Jin Huangfu
9	Traffic State Estimation and Prediction with Vehicle Trajectory Data	3:20pm-3:30pm	D311	Prof. Mian Li Prof. Yong Long TA: Jin Huangfu
10	AR-Enabled Gesture Control of Robotic Arm I	3:30pm-3:40pm	D311	Prof. Mian Li Prof. Yong Long TA: Jin Huangfu
11	AR-Enabled Gesture Control of Robotic Arm II	3:40pm-3:50pm	D311	Prof. Mian Li Prof. Yong Long TA: Jin Huangfu
12	Groundwater Salinity Monitoring System	3:50pm-4:00pm	D311	Prof. Mian Li Prof. Yong Long TA: Jin Huangfu

<b>13</b>	Development of a Direct Ink Writing (DIW) Based 3D printer	<b>2:00pm-2:10pm</b>	D312	Prof. Yunlong Guo Prof. Chengbin Ma TA: Siwei Ye
<b>14</b>	Ray-Robot for Elderly	<b>2:10pm-2:20pm</b>	D312	Prof. Yunlong Guo Prof. Chengbin Ma TA: Siwei Ye
<b>15</b>	Body Thermal Management System - a “Live” Suit	<b>2:20pm-2:30pm</b>	D312	Prof. Yunlong Guo Prof. Chengbin Ma TA: Siwei Ye
<b>16</b>	A High Voltage Power Module with Integrated Monitoring	<b>2:30pm-2:40pm</b>	D312	Prof. Yunlong Guo Prof. Chengbin Ma TA: Siwei Ye
<b>17</b>	Intelligent Integrated Testing System	<b>2:40pm-2:50pm</b>	D312	Prof. Yunlong Guo Prof. Chengbin Ma TA: Siwei Ye
<b>18</b>	BookShelf-Mobile App for vOSE	<b>2:50pm-3:00pm</b>	D312	Prof. Yunlong Guo Prof. Chengbin Ma TA: Siwei Ye
<b>19</b>	Tides-Elastic Platform on Idle Cloud Resources	<b>3:00pm-3:10pm</b>	D312	Prof. Yunlong Guo Prof. Chengbin Ma TA: Siwei Ye
<b>20</b>	Six-degree-of-freedom Fixed Magnetic Levitation Device	<b>3:10pm-3:20pm</b>	D312	Prof. Yunlong Guo Prof. Chengbin Ma TA: Siwei Ye
<b>21</b>	Attractive Magnetic Levitation Device with Large Air Gap	<b>3:20pm-3:30pm</b>	D312	Prof. Yunlong Guo Prof. Chengbin Ma TA: Siwei Ye
<b>22</b>	Refrigerator Child Look Design	<b>3:30pm-3:40pm</b>	D312	Prof. Yunlong Guo Prof. Chengbin Ma TA: Siwei Ye
<b>23</b>	Refrigerated variable temperature zone design	<b>3:40pm-3:50pm</b>	D312	Prof. Yunlong Guo Prof. Chengbin Ma TA: Siwei Ye
<b>24</b>	Smart Data Centers: Patrolling Robot Improving Operations	<b>3:50pm-4:00pm</b>	D312	Prof. Yunlong Guo Prof. Chengbin Ma TA: Siwei Ye

Notes: seven-minutes for presentation, three-minutes for Q&A.