SHORT-TERM COMFORT EVALUATION

of two types of seats in Level 3 & 4 automated vehicles

Student Zhenyang Zhang Chair Dr. Yu (Wolf) Song **Mentor** Dr. Shabila Anjani **Mentor** Dave Withey **Kind Of Activities** Types Of Seats **Automation Levels Participants** Smartphone Use Seat 1 = Level 3 Rest & Relax 5 NDRAs Deskwork Seat 2 Level 4 Eat & Drink Sleep 4 Configurations Only for level 3

Subjective Measurement Objective Measurement Anthropometric Measurement Questionnaire Comfort Rating Seat Adjustment Discomfort Rating Local Postural Discomfort Skeleton Recognition Interview Pressure Distribution · Which activity impressed you most? And why? What do you think of the way the seats are adjusted? Do you have any general feedback of two seats? Does the level of automation influence your adjustment? Did the steering wheel influence your comfort physically? Seat 1 Seat 2 Headrest Hight Headrest High Articulation Angle Arm Rest ecline Angle Fore/Aft Fore/Aft Seat height Seat height

Results

Discussion — Limitation — Conclusion —

Zhenyang Zhang
Short-term comfort evaluation
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Integrated Product Design

Committee

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Design Suggestion

Seat Pan Extension

Calf Tilt