

KOKKUVÕTE

Bakalaureusetöö eesmärgiks oli projekteerida disainootena 1978. aasta Lincoln Mark V keskkonsool, mille peamiseks ülesandeks on luua autosalongile luksuslik visuaalefekt, samaaegselt peidetuna funktsioneerida tõhusamalt kui hetkel saadavatel toodetest. Lisaks hetkeseks projekteeritud tootel on samuti ka võimalus paljudele tulevikus lisatavatele funktsioonidele.

Töö esimeses etapis tehti kõik mõõtmised, mis olid vajalikud keskkonsooli konstrueerimiseks. Esmalt pidi leidma sobilikud istmed ning nendeks osutus 2013-2015. aasta Chevrolet Camaro SS elektrilised ettelaskuvad kupee istmed. Seejärel oli võimalik visuaalselt näha kui laias mõõtmes kogu konstruktsiooni on võimalik teha. Tulemusena projekteeriti niivõrd lai toode, mis on täpselt vastamisi esiistmeid ning disaini vaatenurgast mängib see suurt rolli.

Järgmises peatükis genereeriti erinevaid ideid, mida keskkonsool võis endas hõlvata. Kõige erilisem oli just sõiduki enda C-tugipostil asuv akna visandamine tootesse kui tunnelina. Vähemalt hetkese seisuga julgeks öelda, et sellist lisafunktsiooni pole varem kasutatud autosalongis. Samuti toodi välja ka lükand tarbeesemete hoiulaegas, integreeritud autokülmik, peidetud joogitopsid sahtlina ja põrandal asuv käigukang, mis tuli vastavalt roolisamblalt konverteerida keskkonsooli.

Järgnevalt keskenduti peamiselt toote konstruktsioonile, kus selgitati küljepaneelide puhul välja kasutatava materjali – niiskuskindel naturaalne kasevineer, mis jäi kasutusele läbinisti terve projekti. Samuti valiti kõikide toodetele vastav värv, milleks osutus Mazda 46V Soul Red Crystal metallikvärv, mida modifitseeritatakse vastavalt vajadustele – kere baasvärv must ning lisada mustjastooni helbed. Toodi välja erinevad tehnoloogiad paneelide omavaheliseks kinnituseks ning leiti, et hindamismaatriksiga võitnud autokülmikut, vastavalt projekteeritava mõõtmetele ei ole saadaval. Samuti juhtus see ka käigukangiga, mille tootejoonist ei olnud võimalik saada. Nende kahe kohaselt tehakse edaspidised uuringud. AutoCad 2021 kasutades, esitati kõik tööjoonised.

Neljandas peatükis keskenduti toodete polsterdamisele, kus selgus valituks kangaks kunstnahast Valencia Premium, värvikoodiga NH107-1048 SISAL. Toodi välja kuidas omavahel on võimalik nii nahka kui ka polüester PUR-vahtu, tootekoodiga B 50 H-LF, liimida ning mida peab nahatamisel silmas pidama. Samuti esitati kõik vajalikud kinnitusvahendi kogu konstruktsiooni kinnitamiseks.

Lõpuks esitati kogu keskkonsooli lõplik maksumus, milleks on €. Kuid ka see tuli kahjuks pealiskaudne, sest rohkesti tuli kasutusele eritellimusel paneelid, klaasid, metalllehed.

SUMMARY

The aim of this bachelor thesis was to design a 1978 Lincoln Mark V center console, which main task is to give the car interior a luxurious visualization effect. Meanwhile, with hidden integrated products, it functions better than other options available. The designed project may also have lots of addable functions in the future.

In the first phase of the work, all necessary measurable dimensions were given to design the center console. First of all it was needed to find the right electrical two-door coupe seats and the obvious choice became 2013-2015 Chevrolet Camaro SS seats. After that it was possible to visually see how wide is it possible to construct the whole project. Outcome of the width was just wide enough that the seats are right next to the center console, which plays a huge roll in a design point of view.

In the next chapter, lots of different ideas were given to the center console that it should represent. The most distinguished of them all was the Opera window outlay inside the C-pillar, which was added to the center console as a tunnel. Safe to say there has not been a single design that has been used in that area. Ideas given out were also a horizontal center console arm rest with a compartment, integrated car fridge, hidden drink cups in a drawer and a floor shifter which was converted from a column-shifter.

As follows, main focus was on the product construction, where it came clear that for the material used in making of the side panels was a moisture proofed natural birch veneer, which was used throughout the whole design of the center console. Paint for the product was also given as Mazda 46V Soul Red Crystal metallic colour, which is to be modified as using the base paint as black with flakes. With appraisal matrix, it was clear which technology would be used in attaching panels. As for the car fridge, there are none available in the size needed. Same for the floor shifter there were no product blueprints available. Therefore it is necessary to keep researching in those areas. Using AutoCad 2021, all the designs were given.

In the fourth chapter, main focus was on products upholstery, where the outcome for the materials used is an artificial Valencia Premium leather, with a color code of NH107-1048 SISAL. Also there was given on how it is possible to apply 3M adhesive to the artificial leather and polyester PUR foam, product code B 50 H-LF. Likewise, all the information was given on all necessary fasteners to attach the whole construction together.

Lastly, all the accumulated price on the final product was given out, which is €. Sadly it is very superficial as for all the various products and materials that are necessary to have are going to be made in special orders. As for the panels, glass and metalsheets.