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INTEGRATION OF ELECTRONIC COMPONENTS IN FASHION DESIGN

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Research field: T 008 Materials engineering / V 003 Design

Research purpose. Research purpose. The research aims to study and analyse the possibilities of integrating electronic components in the context of modern fashion design showing contemporary LED options and integrating them into the design project of the clothing collection. The use of electronic components and examples from designer clothing collections are analysed, connecting it with the design of the space age era and its creation, as well as Pierre Cardin's performance in space age fashion.

Keywords: design, electronic components, interdisciplinary project, textile

Research Methodology. Theoretical research, analysis of literature and Internet resources, empirical - experiment and its data processing. Participants of the research - students of engineering and design study programs, two lecturers, and researchers. Research period 2022 / 2023.

Results / Findings. The project includes the stages of development of the author's project, starting with the development of sketches, material selection, design development, and the creation of the concept, constructive-technological design process starting with the creation of a technical drawing, structures preparation and economic evaluation of the project. Project development is an extensive and complicated process, to fully develop a clothing model, it is necessary to make several prototypes until the best result is achieved. Technologies continue to develop, and the more grandiose the project including them, the more it is necessary to study and analyse their characteristics. Fashion is cyclical, it will always repeat itself, and designers must be able to know what fashion style will appear in demand.

Originality / Practical implications. The result of the project's experiments is dress models with an integrated LED. Each model has a design detail that integrates a strip of LEDs. The LED lights are connected to the battery with USB. The research is of practical importance, as it substantiates cooperation in an interdisciplinary experimental process, its results and joint research activity.