International Journal of Mechanical Engineering (IJME) ISSN(P): 2319-2240; ISSN(E): 2319-2259 Vol. 4, Issue 6, Oct - Nov 2015, 13-20 © IASET International Academy of Science,
Engineering and Technology
Connecting Researchers; Nurturing Innovations

COMPOSITE BODYWORK DESIGN AND CREATION PROCESS IN FSAE. CASE STUDY AGH RACING

HANNA FARON, WOJCIECH MARCINKOWSKI & DANIEL PRUSAK

Faculty of Mechanical Engineering and Robotics, AGH University of Science and Technology, Al. Mickiewicza, Cracow, Poland

ABSTRACT

In this paper there is manufacturing of bodywork of a race car presented with a case study of AGH Racing team. Design and creation process begins form virtual prototyping of a model though mold manufacturing and ends up on infusion process.

In order to achieve intended properties of composite materials a proper bonding of reinforcing layers has to be conducted during manufacturing process. It is one of the fundamental quality evaluation criterion while considering fabrication processes.

KEYWORDS: Composite Parts, Manufacturing, Infusion, Mould, Hot Wire Cutter