## THE HIGH INDUSTRIAL EDUCATION 4.0 SOFT SKILLS AND HARD SKILLS

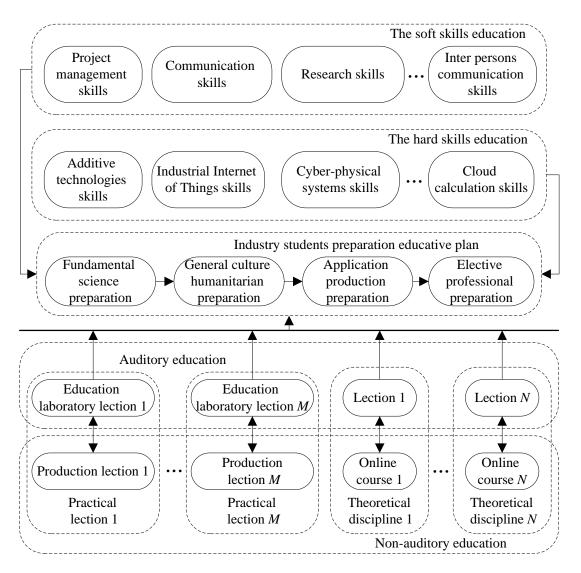
## A V Gurjanov<sup>1</sup>, D A Zakoldaev<sup>2</sup>, A V Shukalov<sup>2</sup>, I O Zharinov<sup>2</sup>

<sup>1</sup> Director, Stock Company «Experimental Design Bureau «Electroavtomatika» named after P A Yefimov, 40, Marshala Govorova St., Saint Petersburg, 198095, Russia

<sup>2</sup> Faculty of Information Security and Computer Technologies, ITMO University, 49, Kronverksky Av., Saint Petersburg, 197101, Russia

E-mail: 131926@itmo.ru

Abstract. The industrial high education is done as multi-layer preparation, which includes the professional and over professional competences development necessary to work in a production. The worker individual base is done as soft skills and hard skills, which are successfully implemented in work groups. The Hard skills education influences the student professional knowledge. The Soft skills education forms the worker emotional stability to make their career boost. The isolated education environment does not provide the full and simultaneous student soft skills and hard skills development that why the preparation system has some career centers resources organized in a production. The joint tutor methods form the student all types of knowledge and skills who are capable to demonstrate their abilities in looking for an industry job. There is high school and production interaction format described for student soft skills and hard skills being developed with different poles. The tutor technics have a significance based on non-auditory practical lections. It is clear that the industrial high education specifics could be the education plan elective courses dominating number to cover up the student interests in maximum who want to make their own education route and influence their career development in education environment.



**Figure 1.** The soft skills and hard skills Education 4.0 industry education combining principle.