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Robotics engineers design robots, maintain them, develop new applications for them, and conduct research to expand the potential of robotics. Robots have become a popular educational tool in some middle and high schools, particularly in parts of the USA , [151] as well as in numerous youth summer camps, raising interest in programming, artificial intelligence, and robotics among students.

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Another way to define industrial robotics are computer-controlled, automation systems that combines the technology of digital computers with a feedback system known as servo control. Industrial robots are provided with sensors which enable it to analyse feedback from its surroundings, and react and adapt to changing conditions. Industrial robots have revolutionized the industry, and are used ...

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The Massachusetts Institute of Technology (MIT) recently released a study called “The State of Industrial Robotics: Emerging Technologies, Challenges, and Key Research Directions” that described challenges of adopting and using industrial robotics. It also made recommendations about how to move the industry forward. Mainly focused on industrial robotics in Europe, the report detailed ...

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For this reason, the languages of choice for industrial and commercial robotics developers are those that offer the best performance, often at the cost of readability and maintainability. The clear winner in this category remains good old C, which is used in the majority of these applications. C++ is often used quite

extensively. In some cases, specific applications use niche languages that ...

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