



# Mechatronika / Mechatronics

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# Strona 1

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## Mechatronic



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Mechatronic devices constitute a vast majority of equipment that surrounds us. Mechatronics is a discipline that combines elements of electrics, electronics, mechanics, IT, microprocessor technology and automation. These areas of industry require a great deal of precision as there is no room for mistakes. All parts must work perfectly in order for the whole mechanism to run smoothly.

A mechatronics assembler's professional duties include such activities as mounting, starting and maintaining mechatronic systems and devices. It is their job to determine the range of works, assembly, starting systems and devices, monitoring their operation, as well as dismantling AC devices and performing current, minor and major repairs.

Due to the fact that a mechatronics assembler is responsible for conducting various specialised tasks, they should possess certain qualities. These are creativity, decisiveness, manual and technical skills, precision, the ability to work within a team, good health condition, eyesight and colour vision.

The job involves the industrial production of mechatronic devices and the work is mostly carried out in production plants or servicing and diagnostic stations.

The profession requires constant improving of one's skills. This is mostly because mechatronics is among the most dynamically developing disciplines. There has been no time like the present. Mechatronics assemblers need to keep up to date with the latest

technologies and methods so as not to fall behind. There is a high demand for qualified specialists both in Poland and abroad, and the earnings are quite rewarding. Mechatronics assemblers must take part in additional courses in order to get to know innovative technological solutions that are constantly appearing on the market.

The work of a mechatronics assembler can take place both indoors, in places such as production halls or labs, and outdoors, where the equipment is installed. Qualified technicians will also find employment in production plants, maintenance and repair sections, as well as a designer's or builder's assistant.

### **Mechatronics technician**



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Mechatronics is an interdisciplinary field of study that emerged in the eighties. A factor that has greatly contributed to joining several scientific disciplines into one is the applicability of electronic technological solutions in various machine mechanisms in order to obtain the best possible results. This area of study can be defined as one that combines elements of mechanical, computer and electrical engineering, as well as automation and mechanisation. Mechatronics fits perfectly in a gap that has appeared between electronics and mechanical engineering. Mechatronic systems should be multifunctional, flexible and easily configured. Simple operation and adaptation are also important.

Modern machines and mechatronic systems are used in industrial production, electrical and mechanical engineering, motorisation, as well as production plants where household appliances or toys are manufactured. A mechatronics technician can successfully seek employment in the aforementioned places.

A person who aspires to be a mechatronics technician should be creative, diligent, and thorough. They should have good interpersonal skills and make a good team player. Both mechanisation and automation have developed at a fast pace over the recent years and therefore a mechatronics technician must constantly improve their skills and broaden their knowledge of such disciplines as mechanics, electronics, machine control and software. They should have an analytical mind, mathematical and technical skills, as well as be able to concentrate on a particular task which is usually designing, programming or mounting of mechatronic systems and devices.

A mechatronics technician surely won't complain about a humdrum job. There is always another problem to be solved, a failure to be removed, or a piece of equipment to be modernised. A lot can happen while organising or supervising the process of machines and device production. There are however, certain contraindications against becoming a mechatronics technician. These are for example, colour vision deficiency, hearing impairments, balance disorders and diseases of nervous, respiratory or cardiovascular system.

# Strona 2

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