

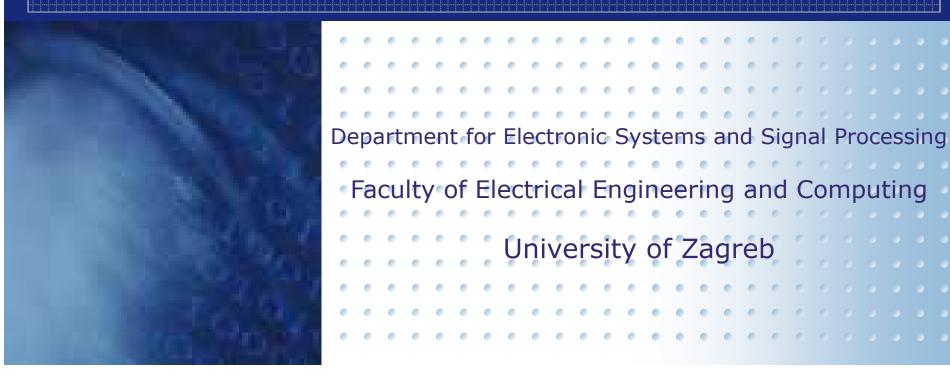






Laboratory for Systems and Signals

Telecontrol of a Mindstorms® NXT robot





Project team

student team:

- Kristina Bashota
- Tibor Čordaš
- Dalibor Jelača
- Iva Jelenčić
- Vedran Koruga
- Damir Kušević

supervisor:

Ana Sović, dipl.ing.

mentor:

mr.sc. Predrag Pale

head of Laboratory:

prof. dr.sc. Branko Jeren



Presentation content

- Aim of the project
- **◆Introducing the robot**
- Realisation
- **♦Ideas**
- **♦Information**



Aim of the project

Encouraging K-12 students by

- Making them familiar with the technology
- Giving them ideas on how to telecontrol a robot for
 - Playing
 - Learning
- Showing and giving them detailed directions how to make similar telecontrolling projects themselves
- Using low cost and available techniques



Introducing the robot

◆The Mindstorms® NXT robot

Accessories

Ultrasonic sensor



Touch sensor



Sound sensor

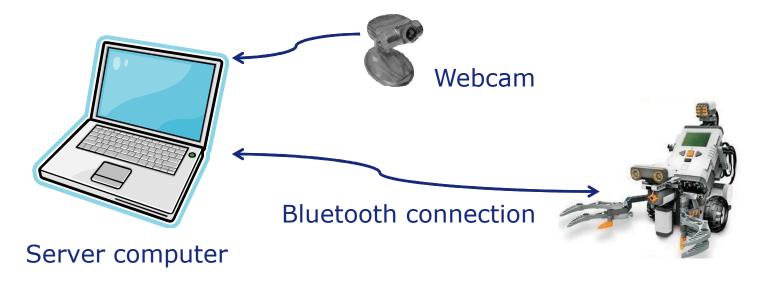






Realisation

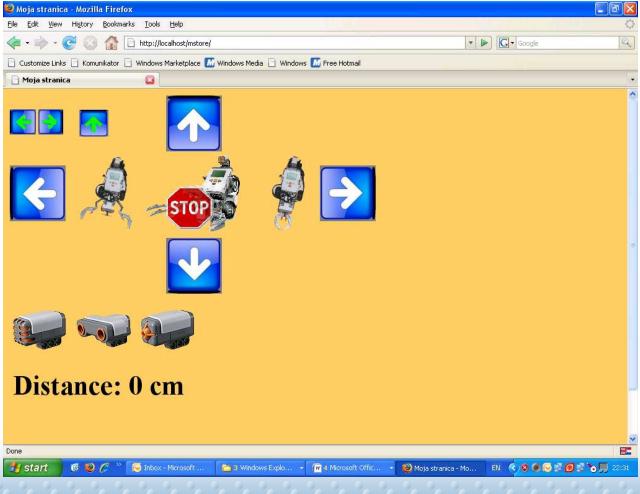
- Communicating via a Bluetooth connection
 - Server computer communicates with the robot
 - Wireless connection





Realisation

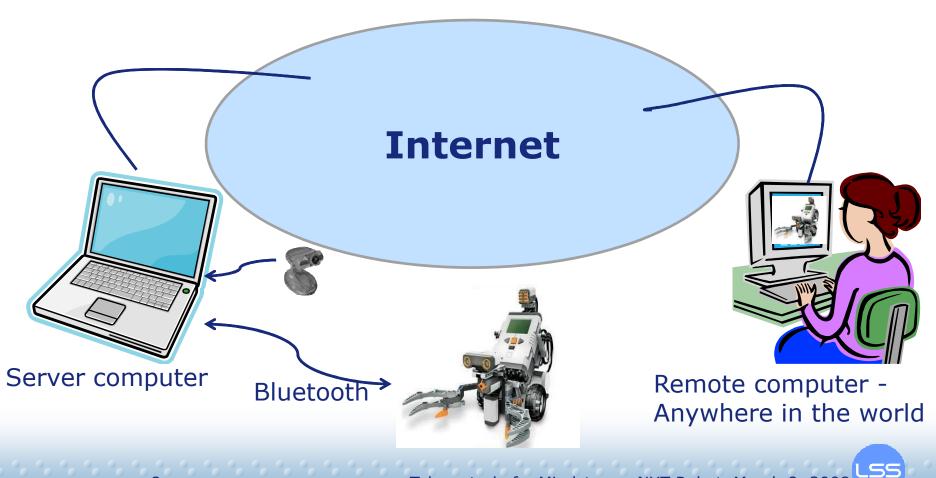
Controlling the robot through a web page





Realisation

Controlling the robot over the internet





Ideas for student projects

- Robots competing
- Programming robots for tasks
- Assembling the robot into a different configuration, e.g.



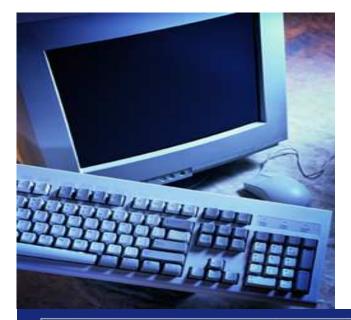






Information

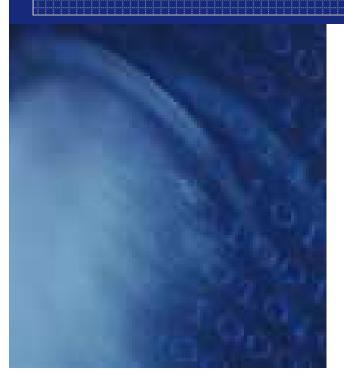
Written material and the program can be found at www.lss.hr/mindstorms





Thank you for your attention!

www.LSS.hr



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