
**JUSTIFICANTE DE LA PROPUESTA DE TEMAS DE TRABAJO FIN DE ESTUDIOS
TRAMITADA POR EL PROFESOR**

Curso académico: 2015-16

Titulación: Grado en Ingeniería Electrónica Industrial y Automática

Datos del profesor

Persona que ha tramitado la propuesta: CARLOS ELVIRA IZURRATEGUI

Departamento: INGENIERÍA ELÉCTRICA

Fecha y hora de validación de la propuesta: 04/12/2015 15:23

Datos de la propuesta

Código: 16017-805G

Tema propuesto: Remote control of a cartesian NSK robot

Tutor/es:

CARLOS ELVIRA IZURRATEGUI

SILVANO NÁJERA CANAL

Tipo de trabajo: No concertado

Breve descripción: This finish grade work includes the programming software to control one NSK manipulator, using serial interface communications. Software must include the graphical interface, one program editor with all the instructions available in the controller robot, local connectivity using serial communications to transmit control robot programs, and remote connectivity to transmit robot programs in the intranet using TCP/IP communications. The software can be programmed in any high level language.

Objetives:

- Study of the NSK manipulator (mechanical manipulator, controller robot, ...).
- Program the local serial communications.
- Program the remote TCP/IP communications.
- Program and editor restricted to the robot instructions.
- Program an integrated development enviroment with a graphical interface.
- Check proper operation.

Idioma/s: Castellano o Inglés

Propuesta de seguimiento: Tutors will schedule all the tasks in order to meet the objectives. Student will show the tutor all the scheduled tasks. All the tasks will be deploy in the L102 laboratory (Polytecnnic Building). Student an tutors will use colaborative resources to establish contact.

Requisitos: Students interested in this finish grade work must initiate contact with the tutor. The students must have passed all the courses in the first three years of the schedule planning grade.

What a student must know:

- Robot programming experience.
- High level language programming.
- Serial communications.
- TCP/IP communications.

Nº. Plazas ofertadas:

- Libres: 1
- Concertadas: NO