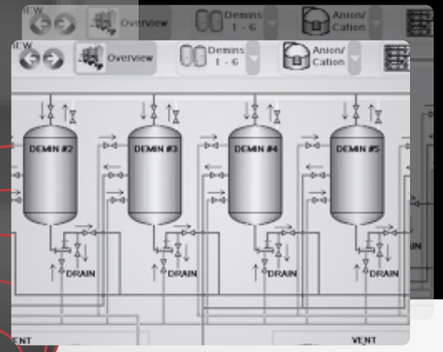
CONTROL SYSTEMS INTEGRATION

> *Control Systems Integrators design and implement sophisticated control systems for manufacturing, process, and other industrial facilities.*
>
> ~ CSIA
> Control Systems Integrator Association
> www.controlsys.org

Controls Engineering is a highly varied field that combines electrical engineering, computer engineering, programming, and a wide variety of other skills.

Controls engineers typically spend most of their time designing, drafting, or programming systems (in an office setting); but they also travel to customer sites for installation and commissioning.

Many controls engineers, especially those who work for Control System Integrators, feel like their careers are a continuous episode of the TV show *How It's Made*, as they are constantly learning new processes, visiting new industrial facilities, and utilizing new technologies.



PLC: Programmable Logic Controller
HMI: Human Machine Interface

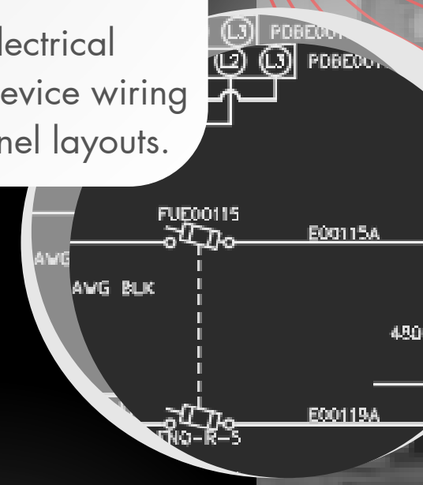
CODE different types of control systems like PLC's with ladder logic or HMI's with graphic tools and custom software packages.

COLLECT AND RECORD production data, device diagnostics, and plant data to data servers for analysis.

DESIGN electrical control systems with motors, programmable controllers, IO, and other automation components.

GENERATE electrical schematics with device wiring and physical panel layouts.

IO: Input-Output



TRAVEL to different manufacturing facilities.

SUPPORT customers virtually and on-site.

TEST and troubleshoot hardware, circuits, and IO devices.

ECS SOLUTIONS INC.