

# WCC&M!

## Wim Cranen, Controls & More!

2001 tot 2009, Employer: ACE Engineering Consultancy in Maastricht

### Duty:

Lead engineer and later project leader controls.

### History:

#### **Company : L.G. Philips Glassfabrik**

Activities : Inventory of the functionality of the cooling within the old analog  
: concept. Programming of PLC's (Siemens S7-400),  
: making changes in hardware and software, commissioning and  
: trouble shooting of the machine (modules) for the production of  
: cathode ray tubes.

Market/customer : Glass industry

Project name : Glass press Halle B

Time and duration : End 2001, 3 month

Assignment : Programming of modules for the product cooling during production

Way of working : Convert the functionality of the present analog mechanism to a  
: digital design with powerful PLC (S7-400).

Value ACE : Adding extra knowledge of automation and control systems

Resources used : Siemens Step-7, professional

Acceptance : Beginning of 2002

#### **Company : Hysta Materials Handling Systems**

Activities : Support during the commissioning of a buffering system for  
: AGV's (Allen Bradley SLC500)

Market/customer : Logistics

Project name : FBH-Installation

Time and duration : Mid 2002, 1 week

Assignment : Learning to know this installation during commissioning, with the  
: idea to assist the end customer during holidays of the system  
: designer of Hysta inn case of an malfunction of the machine.

Way of working : Active response during commissioning

Value ACE : Having a competent partner in eventualities and an extra hand to  
: solve problems.

Resources used : Allen Bradley, RS-Logics

**Company : Weekers Industriële Automatisering**

Activities : Support at commissioning of a robot case packer, controlled  
: with Sigmatek DIAS.  
Market/customer : Automation for food industry.  
Project name : Case Packer Jansen  
Time and duration : Mid 2003, 1 month  
Assignment : Acceleration of the commissioning while adding resources.  
Way of working : Pro-active presence during commissioning.  
Value ACE : Adding man power and knowledge.  
Resources used : Sigmatek PG50 en Visual Basic

**Company : Philips Innovative Applications NV - Turnhout**

Afdeling : Global Techology Development (GTD)  
Activities : Coordination and leading of the electro technical parts of service  
: projects. Engineering and commissioning of hardware and software.  
Market/customer : Industrial Lighting.  
Project name : WE 010036  
Time and duration : End 2006 until mid. 2008  
Assignment : Coordination of the electrical part of internal service project.  
: Mostly smaller extensions with a maximum cost of € 100.000,--  
: on existing machines. On some cases also larger adaptations or  
: prototype machines for a new product or process.  
Way of working : On location of the customers site with the Philips way of working  
: and standards for electrical design of hardware and software.  
: (e.g. Philips basis software for S7)  
Value ACE : Adding resources and engineering knowledge, and knowledge of  
: servo controls and leadership.  
Resources used : Siemens S7, ProTool, WinCC, Visual Motion, LogoComfort, Anorad  
: Adjuster, Pilz Configurator voor PNOZmulti, Cognex Vision

**Company : Hegenscheidt-MFD**

Activities : Coordination and leading of the electrical part of an upgrade for  
: four machines, delivered in 1994.  
: Two turn broach machines and two rolling machines.  
Market/customer : Machinery for the automotive  
Project name : WE 292001 and WE292002  
Time and duration : Mid 2008 until end 2008  
Assignment : Design and development, coordination and implementation on site  
: of the electro technical part of the upgrade on four machines.  
: Two machines were equipped with new motion systems.  
: The servo motors were replaced by newer and more modern types  
: and the syste was expanded by two servo motors.  
: The old servo controller system was completely removed and a  
: totally new and modern system was placed instead.  
: Also the programming of this system was performed as the  
: communication between PLC and motion controller. The screens in  
: the HMI are adapted for the new situation.  
: The other two machines were equipped with a new system for  
: analog stroke detection with associated adaptations.

- Way of working : Ordering lists were handed over to the German customer.  
 : Electrical design was hand written and prepared.  
 : Software was prepared at the office and tested in a simulation.  
 : During commissioning at site in Spain, all four machines were re-  
 : tooled and commissioned tested and accepted within three weeks.  
 : Also capability tests were done on all product types.
- Value ACE : Adding recourses and knowledge on engineering, servo and lead  
 : engineering. The customer is a former employer.  
 : There were no former colleges left with knowledge of these  
 : particular machines and known issues of the process. That is why  
 : Hegenscheidt went to ACE. Attracting an "old" employee was a  
 : good hit and worked fine for the end customer (Ford).  
 : Ford was worried in an early stadium due to the lack of expertise of  
 : these machines left at Hegenscheidt.  
 : Knowledge of C2C2C (construction to commissioning to capability).
- Resources used : Allen Bradley, Bosch Rexroth IndraWorks and IndraLogic.  
 : Ford programming specification STEPS (later version of EDDI).
- Acceptance : October 2008

