Technical Resume of
MICHAEL R. HAMPSON
President, Technical Manager

Summary of Professional Endeavors

Michael has more than fifteen years of experience beginning with AC/DC drives and power distribution systems, branching out into programmable controllers, human-machine interfaces, and general automation and control systems, and finally encompassing information technology, especially manufacturing supervisory control utilizing Microsoft networking and software/database development. Michael has extensive experience in high level automation of manufacturing equipment including continuous process lines (steel mills, paper/plastic, textiles and non-wovens), batch processing, center and surface winding applications, slitters, tension control, and advanced motion control.

Professional Background

PROJECT MANAGER / PRESIDENT 2002 - Present XL AUTOMATION, INC., Marietta, GA

Manage and execute electrical automation and control projects in a variety of industry sectors. Operate business, including managing employees, finances, sales & marketing, operating procedures, manufacturing, and general administration. Single projects executed have surpassed $1M in project cost. Despite significant management and administrative responsibilities, still largely immersed in design and programming efforts.

SENIOR PROJECT MANAGER 1998 - 2002 SCSI (formerly RES), Smyrna, GA

Manage and execute electrical automation and control projects in a variety of industry sectors. Responsible for overall project budget, allocation of manpower, electrical design, programming, bill of materials specification, manufacturing management, testing, installation, and troubleshooting. Specialties include plastic extrusion, chemical, and discrete manufacturing sectors, motion control, advanced sequencing and control, and Visual Basic applications.

ELECTRICAL MAINTENANCE ENGINEER 1995-1998 Atlantic Steel Industries, Inc., Atlanta, GA

Responsible for Control System design, PLC/PC programming, Drive Systems design, Communication Systems design, Network design, and support, supervision, installation, troubleshooting and maintenance for two steel processing installations including bar and rod rolling mills, continuous caster, and melt shop.

ELECTRICAL ENGINEER 1993-1995 GE Drive Systems, Inc., Salem, VA

Provide technical support to customers and field service engineers, including on-site drive systems troubleshooting, repair and start-up, and working closely with development team and factory to prevent potential problems with equipment.

Professional Customer Project Experiences

- Multi-axis coordinated motion control for R&D microelectronics process line
- High speed motion control for labeling application (10 labels / second)
- Sequencing / Phase control for chemical reaction process
- Coordinated AC drive system for textile and steel process industries
- Custom Visual Basic operator interface development with ODBC / ADO database connectivity and PLC communication drivers
- Over $1M upgrade of steel coating line and >$800K upgrade of extruded plastic orienter line
- Coordinated mechanical/electrical design of numerous process equipment including roll-to-roll process lines.
- Design and Administration of Microsoft networks

EDUCATIONAL BACKGROUND

- Bachelor of Electrical Engineering – Georgia Institute of Technology, Atlanta
- Certificate in Computer Engineering – Georgia Institute of Technology, Atlanta
- Licensed Electrician, Class I, License #ER101540
- Microsoft Certified Systems Engineer (MCSE)

PROGRAMMING LANGUAGE CAPABILITIES

Programming Controllers:

- Allen-Bradley PLC-5 — RSLogix 5, 6200, Frameworks
- Allen-Bradley SLC500/Micrologix — RSLogix 500 and APS
- Allen-Bradley ControlLogix — RSLogix 5000
- Siemens Simatic S7 PLC — Step 7
- Automation Direct — Directsoft
- Omron — CXOne
- IDEC

Operator Interfaces:

- Allen-Bradley PanelView — PanelBuilder / RSView
- Cutler-Hammer PanelMate — Power Series
- Omron — CXDesigner
- Automation Direct — C-More

Control Networks:

- Data Highway + / DH-485 / RS-232 DF1 Protocols
- DeviceNet
- Ethernet
- Profibus

Motion Control:

- Allen-Bradley 1394, 1398 — GML
- National Instruments 7344 — NI Motion
- ControlLogix / SERCOS

Programming Languages:

- Microsoft - Visual Basic
  - Relational Database Access
  - OLE for Process Control (OPC) Communication
- Microsoft Access / SQL Server
- Microsoft Visual C++ (Limited)
- National Instruments LabVIEW

SCADA:

- Wonderware — FactorySuite
- Intellution — iFix
- Rockwell — RSView32
- National Instruments — LabVIEW, Measurement Studio, Flexmotion

Information Technology:

- Ethernet Networking
  - 10Base-T
  - 100Base-T
  - 10Base-2
- Protocols
  - TCP/IP
  - Ethernet I/P
- Microsoft Windows Networks Administration & Design