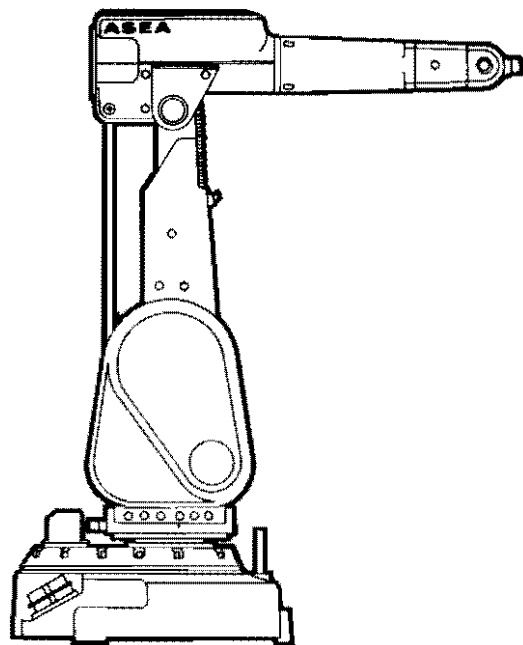


ABB
ASEA BROWN BOVERI



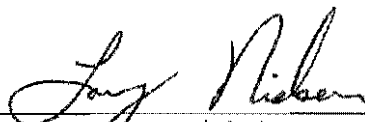
Certificate of Achievement

Presented to

TONY LYONS

in recognition of having
successfully completed the prescribed
course of study for

IRB S3 PROGRAMMING


Instructor

August 12, 1994
Date

LARRY NIELSEN

ABB Robotics Inc.