

DFMA/DTC
\$4.3M
Industrial

Project
Management



Mechanical
Engineering



Systems
Engineering



Electrical
Engineering



Software
Engineering



ASSEMBLY & CALIBRATION LINE FOR MINIATURE IR CAMERAS

APPROACH

- Customer had annual volume targets, but design not completed on new miniature IR camera. Approached us to develop automated assembly and calibration line (8 unique stations, full database, etc.) with goal of processing and calibrating each unit for pennies each
- Cost included hardware, labor, electricity, shop air, etc. – fully costed operation
- Designed entire architecture, equipment design, throughput studies, etc. with requirement that final system had to meet this DTC target

RESULTS

- Completed system under cost target
- System designed with flexibility – minor software updates allow system to run over 12 current variants of camera on same line
- Worldwide roll out of systems and remote software support allowed concurrent production start and continuous software roll-outs with no travel/down time on system (remote install/bring-up in off shift)



ALTEN TECHNOLOGY