AS I REMEMBER

A Walk Through my Years
at Hughes Aircraft
1961 - 1997
On the Lawn, 1960
SOME EARLY TASKS AS A MEMBER OF THE TECH STAFF

- AIR COMBAT COUNTERMEASURE
- SUN GLINT VERSUS SEA STATE
- LASER APPLICATIONS
- RADAR GROUND CLUTTER
NAVY PHOENIX
AIR INTERCEPT MISSILE
F-14 WITH SIX PHOENIX MISSILES
NEW DEPARTMENT FORMED FOR AIR TO SURFACE MISSILES
ADVANCED DEVELOPMENT SPECIFICATIONS:

GROUND TARGETS
50 MILE RANGE
AUTOMOUS GUIDANCE
10 FOOT ACCURACY

OPTICAL CORRELATION GUIDANCE
Air Force TV Maverick
Imaging Infrared Maverick
OPERATION DESERT STORM
A PHONE CALL
(1975)
TECHNICAL DIRECTOR

THREE RESEARCH CENTER
* SEMICONDUCTORS
* MICROWAVE DEVICES
* CCD’S WITH PROCESSOR

“DO WHATEVER YOU WANT”
“DO WHATEVER YOU WANT”

* ENERGY CONSERVATION

* MEDICAL ELECTRONICS

* BAUER PATENT LAW SUIT
GATE ARRAYS AND DESIGN WORKSTATIONS MID-80’S

- 1.3 MICRON CMOS
- IMPROVED DELIVERY SCHEDULE
- CUSTOMER DOES THE LAYOUTS
GENERAL MOTORS ACQUIRES HUGHES AIRCRAFT COMPANY BECOMES GM HUGHES ELECTRONICS 1985
ASSOCIATION WITH UC-IRVING

- UNIVERSITY FOUNDERS CLUB
- CHANCELLOR’S BUSINESS ALLIANCE
- ENG. SCHOOL BUSINESS SUPPORT ORGANIZATION
- ROBERT SAUNDERS SCHOLARSHIPS
INDUSTRIAL ELECTRONICS

GROUP PRESIDENT

AND

CORPORATE VICE PRESIDENT
ANOTHER PHONE CALL
GROUND SYSTEMS GROUP

PRESIDENT,
SENIOR CORPORATE VP
LARGE SOFTWARE BASED INTERNATIONAL SYSTEMS

- NATO NORTHERN AIR DEFENSE SYSTEM
- UK AIR DEFENSE SYSTEM
- CANADIAN AIR TRAFFIC CONTROL SYSTEM
- SAUDI ARABIA PEACE SHIELD SYSTEM
SAUDI DISCUSSIONS
A Master of the Megillah

Walker helps Hughes keep some of the world's most complicated projects on schedule and on budget.
UNDERSEA WARFARE

DR. WALTER

THANKS FOR JOINING US

TODAY ON "THE JEWEL" OF THE

PACIFIC. I HOPE YOU ENJOYED

THE TRIP AS MUCH AS WE ENJOYED

SHOWING OFF THE SHIP / CRUISE

COMMANDING OFFICER

USS LA JOLLA (SSN 701)

6/21/90

8/21/90
AEROSPACE AND DEFENSE SECTOR

MEMBER: OFFICE OF THE CHAIRMAN
STRAPDOWN INERTIAL NAVIGATION SYSTEM

(a) Input axis
- Resonator
- Driver electrode
- Case attachment
- Pick-off electrode

(b) Vibration pattern during case rotation
- Initial vibration pattern
- Key:
  - $\theta$ – Case rotation angle
  - $\phi$ – Vibration pattern precession angle
CHIEF TECHNICIAN OFFICER
DELCO ELECTRONICS
Heads UP Display Award
Indy 500

1996 LOUIS SCHWITZER AWARD
David Schnelker, I-Fu Shih
Ning Wu, Ed Rothrock
“Delco Electronics Racing Eye Cue”
“Safety, Security, Communication”
Research Vehicle
RESEARCH VEHICLE INCLUDES:

GM EV-1 Electric Car, Hughes Magna-charger
LATE 90’S

GM HUGHES ELECTRONICS WAS SOLD OFF IN SEPARATE ARRANGEMENTS
* DELCO ELECTRONICS SECTOR MERGED WITH DELPHI

* AEROPACE & DEFENSE SECTOR SOLD TO RAYTHEON

* SPACE SECTOR SOLD TO BOEING

* DIRECTV - PUBLIC COMPANY