

Alden Allen, UNIVAC WORK RESUME'

{re-typed by LABenson from old papers}

Alden retired in March 1986 after 31 years with the companies; he started on defense projects then worked on commercial projects. His history has two parts: 1) a positions paper from 1955 thru 1962 and 2) a travelogue from 1957 to 1985. Thanks to him for his WWII service. [by LABenson]

- BS of Aero Engineering, University of Minnesota, 1943
- Registered Professional Mechanical Engineer, MN #6779
- Five patents issued, 2 pending

Experiences as of 1962: Mr. Allen joined UNIVAC in 1955 and since 1958; has been associated with the development of Thin Film Memories. For two years, he was the Project Engineer in charge of the development and operation of the high vacuum facilities used for the deposition of film core elements. From 1960 to 1962, he has been the Supervising Engineer in charge of both Film Core deposition and Film Memory Packaging Engineering.

During this period, the Thin Film Memories for the following computers were developed and produced: ADD I Missile Borne Computer (USAF), Lightning High Speed computer (Navy BUSHIPS), 1107 Control Memory (UNIVAC), Barcroft (NAS), Advance Film Memories (UNIVAC) & Thornhill (NAS).

The mechanical design groups for Military Core Memory & Film memory systems were combined In July 1962 with Mr. Allen as Supervising Engineer. In this position, he had responsibility for advanced memory packing design and feasibility model fabrication.

Employment History at Sperry Rand UNIVAC, 1955 to 1962:

July 1962 – Present; Supervising Engineer, Mechanical; responsible for film and core memory packaging and fabrication developments for the Military Memory Systems Laboratory.

July 1962 – 1960: Supervising Engineer, Mechanical; directed operation of high vacuum thin film deposition laboratory and the film memory packaging for the DD, Lightning, 1107, Barcroft, Thornhill and Advanced Memory memories.

Oct. 1958 – Feb. 1960: Mechanical Engineer, responsibility was to lead the thin film vacuum deposition lab, develop personnel, fixtures and operating techniques required for this project.

Jan 1958 – Oct. 1958: Section Leader, Ancillary Equipment. Systems Engineering & Management Dept. Responsible for engineering study of shelter, power and mobility requirements for USAF aircraft Control System 314L.

Sept. 1957 – Jan. 1958: Section Leader Ancillary Equipment. On the ICBM Project 2067, I was responsible for mechanical development of high-reliability paper-tape readers and ancillary equipment.

Sept. 1956 – Sept 1957: Project Engineer, Mechanical Development Dept. I did the mechanical design and fabrication of feasibility model of flying head mass storage disc file memory.

Sept. 1955 – Sept. 1956: Engineer Mechanical Dev. Dept. I worked on the mechanical component design and test engineer on electro-mechanical arming fuse assembly for BOMARC intercept missile.

ANSUL CHEMICAL Co., Marietta Wisconsin

June 1953- Sept. 1955: Senior Mechanical Engineer. Directed R & D program relating to dry chemical fire extinguishing equipment and refrigeration products.

Oct. 1947 =- June 1953: Mechanical Engineer. Directed development of new dry chemical crash trucks for USAF, USN, & USAF.

Glen L. Martin Co., Baltimore, MD

Jan 1947 – Oct. 1947: Aeronautical Engineer, was the liaison engineer on Martin 202 aircraft.

UNITED STATES ARMY AIR FORCE (USA & Mediterranean Theater of Operations)

June 1943 – 1947: Aircraft Maintenance engineering Officer (1st Lieutenant) MOS 4823 & 0911. I did or led aircraft maintenance & repair operations during wartime on B24 & B25 aircraft.

Karina, Alden's wife, wrote the following in a travel log paper:

This is probably less than half of the trips that Alden went on. I was with him on a few trips to Washington and Pittsburg area that I found no record of – on those trips he would take extra time to visit with parents and relatives in the areas. At Pittsburg, I loved to drive to Hersey, PA to visit the Hershey Chocolate Museum.

He made a few trips to China Lake, CA. It was on a secret project for the government. Alden had "Golden" which¹ was top clearance at that time for government work. At one time one of the engineers had gone to Yugoslavia to repair a computer. He happened to have "Golden" clearance. He was put in prison for 10 days before he was released. For a few years afterwards; those with "Golden" clearance were not allowed to travel to many areas of Europe for their own safety.

Alden went to Cape May quite a few times; I was able to go with him about half of the time. I do remember our third son, Kurt going with him to Philadelphia once. He made many trips to a town in Iowa {Editor's comment: quite likely Clear Lake}, I had no records of those. There was a two-year period in which Alden was gone nearly 2-3 days a week.

In December 1970; the following was provided to the Dutch:

- Supervising Engineer at Univac Product Support Department,
 - 1943 University graduate in Aeronautical engineering,
 - Registered Professional engineer in Minnesota,
 - Five years in aviation Industry and Service,
 - Eight years with Chemical Company, and
 - 15 years with UNIVAC.
1. Two years in Product Support, responsible for FH 432 design support for factory production and field operations.
 2. Project Engineer on vacuum-deposited magnetic films, chemically deposited plated wire magnetic films, and core memories.

¹Editor's note: During UNIVAC days, a person's security clearance was obvious to those who knew by the color of his/her employee badge. White was no clearance, Blue was confidential, and Gold was Secret. There was no outward indication other than Gold for those who had supplemental project specific clearances; i.e. Top Secret, Special Intelligence, Special Access, etc. LABenson

3. Program manager on high reliability memories for Poseidon Missiles, Mariner Space Probe, and others.
4. Representing UNIVAC as qualified technical engineer to evaluate condition of equipment.

<u>Left on</u>	<u>For</u>	<u>Because</u>	<u>Notes.</u>
12/9/57	Chicago, IL – two days.	Technical conference with project subcontractor, Cook Electric Co.	\$70, overnight Pullman trip
1/21/58	Chicago, IL – three days - train	Technical conference with project subcontractor, Cook Electric Co.	\$72, Pullman there, plane back
2/17/58	Dayton, OH	WADC to obtain information on shelters and L/W motor generator sets.	\$113, hotel & flights
3/3/58	Rome, New York	RADC for information on shelters	\$151 w/planes
3/3/58	Hampton, VA	Langley Air Base, for TAC shelter and power discussions	\$184, plane, hotel, car rental
3/11/58	Bedford, MA	Cambridge Research Center to discuss packaging for TSQ-19 (TACS)	\$209, plane, hotel, taxi
4/3/58	Hampton, VA	Langley Air Base to discuss TSQ-19 packaging and power requirements.	\$209, plane, hotel, car rental
4/21/58	Lexington, MA	Craig Systems Engineering to obtain Helicop-Hut V-83/M trailer and equipment installation data.	\$204, plane and taxis
6/23/58	Muskegon, MI	Cannon Muskegon Corporation	\$95, plane
9/15/58	Pittsburg, PA & Baltimore, MD	Westinghouse Research Center and Electronic Equipment Lab to discuss induction heaters and Levitation Melting Equipment.	\$181, planes, hotels, food
10/6/59	Philadelphia, PA	Attendanc at American Vacuum Society Conference	\$215, plane, hotel, registration
4/5/60	Boston, MA	Attended NFPA Committee on Electronic computer Systems as a committee member	\$182, plane, hotel, food
5/15/60		Train to Chicago, Toronto, & Montreal Plane from Montreal to NYC, Rochester, Chicago, Home	
7/31/60	Boston, MA	Technical discussion with Lincoln Lab (MIT), Westinghouse, Hamilton Watch, and corning Glass personnel concerning techniques and materials.	\$320, plane, hotels, taxis
1/3/62	Boston, MA	Technical Conference with Lincoln Labpersonnel on Thin Film Manufacturing & packaging.	\$200, plane, hotel, taxis
2/12/62	Washington, DC	Engineering liaison for NAL proposal	\$175
6/24/63	Albuquerque, NM	Pre-contractual visit with Sandia	\$125
3/9/64	Baltimore, MD	Fort George Meade to discuss Radman proposal.	\$169
3/10/64	Newark, NJ	Morris Plains conference with BTL personnel on Nike X fabrication, infrared soldering in particular.	\$163

Established in 1980

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6/8/64	New York, NY	NEP/CON – National electronic packaging & Production Conference.	\$197.
10/22/64		Pre-proposal activity for a developmental study program which involves techniques for Batch Plan fabrication, automated assembly methods of both logic and memory elements.	\$202.
3/23/65	Blue Bell, PA	NRL contract Liaison, memory fabrication discussion.	\$198
4/5/65	Los Angeles, CA	Attendance at IEEE Symposium on impact of batch fabrication on future computers.	\$357
7/20/65	Los Angeles, CA	Bidders' conference on JPL NDRO data memory.	\$280
12/13/65	Raleigh, NC & Ridgefield, NJ	Vendor liaison with Corning Glass and Kulite Tungsten.	\$220
4/18/66	Madison, WI	Attendance, Engineering Institutes at University of Wisconsin.	\$205, drove to/from.
11/10/66	Baltimore, MD	Illiac proposal liaison at Westinghouse.	\$136.
12/5/66		Proposal liaison with Radiation Inc. on IRLS	\$228.
12/14/66	Philadelphia, PA	IRLS liaison with Philadelphia Engineering – Raduatuib Ubc, & goddard NASA	\$197
8/20/67	San Francisco, CA	8th Internal Electronic circuit packaging Symposium.	\$335
5/13/68	Norristown, PA	Technical liaison with Philadelphia and St Paul wire memory production. {Editor's note: St. Paul was doing wire memory for the AN/UYK-11, Philly for the 9200.	\$209.
7/10/68	Philadelphia, PA	United wire program problem review session	\$166.
8/19/68	Bristol TN	Plated wire program liaison with Bristol engineering.	\$195.
10/7/68	Bristol & Philadelphia		\$241
1/6/69	Bristol, TN	Plated wire program liaison continuation engineering	\$176.
2/12/69	Utica, NY	1108 connector corrosion, Roseville & Sylvania.	\$271.
2/24/69	Bristol, TN	Liaison wire memory tunnel production.	\$220.
4/16/69	Bristol, TN	Wire specifications and memory liaison.	\$199.
5/6/69	Philadelphia, PA	Plated wire symposium	\$175.
6/5/69	Chicago, IL	Correct Fastrand II alignment problems.	\$258.
7/13/69	Chicago, IL	Installation liaison, Fastrand II modification at UAL site.	\$106.
8/6/69	Tri-City, TN	Page-writer and /Fastrand liaison	\$206
9/15/69	Chicago, IL	Drum alignment problem at UAL.	

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2/19/70	Lima, OH	Westinghouse frequency converter development.	\$120.
3/13/70	Montreal, Canada	Field liaison with 1108 installations.	\$207.
8/13/70	Montreal, Canada	Air conditioning situation at Bell Telephone.	
12/1/70	Amsterdam, Netherlands	To examine damaged equipment at Danish PTT in the Haugue.	\$738.
10/26/71	Stratford, CN	Inspect 1108 site for shock condition at Pitney Bowes.	\$263.
6/17/72	Norwalk, CN	Determine shock & vibration conditions of 1108 at Pitney Bowes. Took Bruce on this trip to measure floor movements due to punch press operations – left early due to flood conditions.	\$520.
8/16/72	Stamford, CN	To conduct 1108 site vibration study at Pitney Bowes.	\$376.
9/28/72	Sydney, Australia	U. C. Compunet 1108 acid incident	
3/20/73	Bristol TN & Utica, NY	Inspect manufacturing processes and design of C/SP P.C. board. With Bob Stone and Pat lea to focus on solder process on laminated bus cards.	\$265.
9/11/73	Chicago, IL	Noise and Vibration Control Conference and Exhibition.	\$276
10/14/73	Blue Bell, PA	Wire corrosion study at Blue Bell Material & Process Lab., met with Dr. Goldberg.	\$267
7/26/74	Washington, DC	6015 bearing problem at the Defense Mapping agency topographic canter.	
8/8/74	Philadelphia, PA	Liaison for Series 70 component specifications & documentation	\$259.
7/13/75	Santa Barbara & Goleta, CA	Vendor liaison for the S/70 program	\$315
9/18/75	Salt Lake City, UT	Participate in meeting to define the use of lubricants in connector contacts.	
11/23/75	San Francisco, CA	Seismic measurements at Bechtel site.	\$452.
6/9/76, 11 days	Paris, France	Remedial Action team to SNCF site. Switch contact corrosion, etc.	\$1,600.
9/27/76	Marietta OH	Task force representative for frame and casework meeting.	\$195.
10/5/76	Chicago, IL	Vendor problem on Rotary switches at Switchcraft. n	\$117.
11/5/76	Chicago, IL	Vendor problem on switches at Switchcraft. n	\$117.
2/15/77	Tampa, FL	ASE Metric Design Seminar	\$412.
6/20/77	Los Angeles, CA	Varian Data Machines – investigated damaged fire at State Legislative Council. Brought home filter samples for spectrographic analysis at Plt. 4.	\$365.

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9/6/77	Costa Mesa, CA	Vendor liaison, T1925 Master specialties, switches.	\$440.
3/7/79	Blue Bell, PA	Project liaison on PCO and transfer to continuation of Series 70.	\$447.
4/25/79	Salt Lake City, UT	1940 liaison	\$290.
8/11/79	Washington DC	Water pipe at Bureau of Census.	\$589.
10/9/79	Blue bell, PA	10/80 Stability monitoring team meeting.	\$382.
1/22/80	Blue Bell, PA	Stability meeting and M1940 Prom burner liaison and Series 770.	\$535.
7/29/80, 5 days	Norfolk, VA	Evaluate water damage to dual 90-60 site.	\$516.
8/19/80	Blue Bell, PA	Review I/O cable FMI problem with Bristol & Blue Bell personnel and other standards review.	\$637.
9/28/81	Middletown, VA	Western Union floor vibration, air conditioning	
9/30/81	Chicago, IL	Appleton Electric, computer site floor vibration levels.	
11/15/84	Oklahoma City, OK	Tinker Air force Base, equipment fire	
8/2/85	Amsterdam	RWS Damage recovery consultation trip.	

Epilogue by Lowell

Karina and Alden met in the Minneapolis VA hospital in 1945. Karina was a nurse there and took care of Alden's leg wound.

Alden has been a long, long time participant at the First Friday monthly luncheons, (the original geek squad). We do have his oral interview on disc, to be transcribed when volunteers have the time.

This snapshot clip is from the 2010 Unihogs/Uniturkeys lunch.

