

BIOGRAPHICAL SKETCH FOR THE FIELD ARTILLERY OCS HALL OF FAME  
United States Field Artillery Association  
Post Office Box 33027  
Fort Sill, Oklahoma 73503

Name Howard H. Rubin Date 20 March 1996  
Telephone (Commercial) (405) 248-5116 Rank Major  
(Autovon) \_\_\_\_\_ DOR 11 October 1977  
Address 6008 NW Williams, Lawton, OK 73505 DOB 27 November 1942  
OCS Class # 11-64 Date Graduated/Commissioned 13 October 1964  
Present Duty Assignment/Occupation Vice President, LB&M Associates, Inc.  
Address 211 S.W. 'A' Avenue, Lawton, OK 73501

Brief Resume of Duty Assignments:

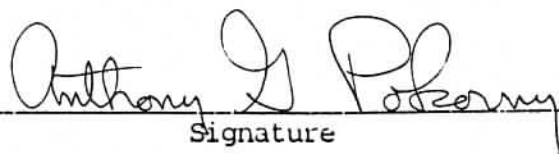
Concepts Division, DCD, Fort Sill  
S-3, 212th FA Group, Fort Sill  
Bn S-3, 2nd Inf Div Artillery, Korea  
Tactics Instructor, Fort Sill  
Spec Wpns Off, 2nd Inf Division, Korea  
Asst G-3, 24th Inf Div, Fort Riley  
Bn XO, 1/13th Arty, Germany  
Btry Commander, 1/13th Arty, Germany

Awards and Decorations:

BSM, MSM, ARCOM-1, MUC, GCMDL, NDSM, VSM-3, AFEM, AFRM, FGN AWDS,  
RVNCM, EIB

General Remarks: Please see attached.

[X] Check if additional sheets  
are attached.

  
Signature

Anthony G. Pokorny  
Colonel, Field Artillery, Retired

## HOWARD H. RUBIN

### AREAS OF EXPERTISE

Combined Arms Operations and Tactical Doctrine  
Command and Control  
Fire Support Operations  
Scenario Development  
Training and Training Management  
Military Leadership and Management  
Operations and Employment of Systems  
Combat Modeling  
Concept and Doctrine Development  
System Specific Organizational and Operational Plan Development  
Human Factors Engineering

### CIVILIAN EDUCATION

M.B.A., 12 Hours Graduate Study,  
Oklahoma University, Norman, Oklahoma

B.S., General Business,  
1971, Cameron University, Lawton, Oklahoma

### MILITARY EDUCATION

Electronic Warfare Staff Officer, U.S. Army Field Artillery School, Fort Sill, Oklahoma, 1977  
Instructor Training and Instructional Systems Development, U.S. Army Field Artillery School, Fort Sill, Oklahoma, 1972  
Field Artillery Officer Advanced Course, U.S. Army Field Artillery School, Fort Sill, Oklahoma, 1969  
Nuclear Weapons Employment, U.S. Army Field Artillery School, Fort Sill, Oklahoma, 1969  
Officer Candidate School, U.S. Army Field Artillery School, Fort Sill, Oklahoma, 1964  
Field Artillery Computer Repair (FADAC), U.S. Army Ordnance Center and School, Aberdeen Proving Grounds, Maryland, 1963

## CORPORATE EXPERIENCE

Vice President of Operations/Senior Systems Analyst, LB&M Associates, Inc., Lawton, Oklahoma, 1983 to present:

HARPY Robotic Aerial Vehicle Analysis, General Dynamics. Senior Study Advisor, as leader of a four analyst team, provided input and guidance to analysis of HARPY employment to include development of required firing rates, system organization and employment, and trade-off analysis addressing launch unit type and resupply concepts. Developed DOD through user unit level briefings to aid General Dynamics explain the approach and supporting analysis. Highlighted potential test issues and test requirements for the client.

Survivability Analysis for the Howitzer Improvement Program (HIP) Initial Operational Test and Evaluation (IOTE), OTEA. Project Manager, provided input and guidance to survivability related analysis issues and procedures. Developed the survivability analysis methodology used to assess the contribution of HIP to the AirLand Battlefield. Assisted OTEA Survivability Evaluator in development of briefings and reports. Helped develop a major advance in the analysis and display of test data - - Dynamic Data Display System.

BRAVE 3000 Robotic Aerial Vehicle Analysis, Boeing Military Airplane Company (BMAC). Senior Study Advisor, as leader of a six analyst team, provided input and guidance to the operational aspects of the envisioned employment of the BRAVE 3000, to include command and control, operational planning, unit organization and operational concepts. Developed operational input to Boeing response to TACIT RAINBOW RFP.

Operational Analysis and Evaluation of an Israeli Fire Adjustment Radar, ELTA Electronics. Project Manager, provided guidance and direction in client/user interface, assisted client in developing briefing packages, discussions with fire support user community, interpretation of user comments and recommendations, development of a candidate operational and organizational plan, and development of a test and evaluation plan for the SMART Radar.

Force Integration Analysis Study (FIAS), DA DCSOPS. Systems Analyst, assisted in developing Strategic, Operational, and Tactical requirements in terms of Battlefield Operating Systems (BOS), Operation Plan and BOS correlation methodology, BOS and Mission Essential Task List (METL) correlation and crosswalk, data identification and reduction methodology, evaluation criteria and methodology, and presentation techniques for FIAS.

Ammunition Resupply Study, FMC-NORD. Project Manager, provided guidance, direction, and analytical input to a comprehensive study of field artillery

ammunition resupply (Theater to Weapon) to support client modeling efforts. Suggested doctrinal, procedural, and materiel enhancements to overcome anticipated shortfalls.

Ammunition Forecasting Study, Human Engineering Laboratory. System Analyst, assisted in developing tactical employment requirements, weaponeering methodology, munitions effectiveness analysis, and forecasting requirements for future artillery employment.

Army Tactical Missile System/Multiple Launch Rocket System Command and Control Analysis, LTV. Systems Analyst, assisted in developing tactical requirements, scheduling considerations and rules, Functional Control Trees, and Mission Threads to support software development (B5 Specs) for the ATACMS/MLRS interface.

New Thrust Demo 86/87, Human Engineering Laboratory. Systems Analyst, provided assistance in development of technical command and control designs, Organizational and Operational Plans and structures for the management and execution of New Thrust Demo.

Remotely Piloted Vehicle (RPV), Lockheed Austin. Systems Analyst, assisted in analytical studies of the Aquila system, reviewed O&O Plan and provided recommended improvements, and developed both the multiple vehicle control system and the automated mission planning procedures.

Search and Destroy Armor System (SADARM), Aerojet. Systems Analyst, assisted in developing tactical requirements, operational employment concepts, and overall tactical application of SADARM.

Advanced Field Artillery Tactical Data System (AFATDS), Magnavox. Project Manager, conducted operational requirements analysis and developed system design requirements to include: data base organization, applications software requirements, screen design, and system architecture needs for the AFATDS.

Howitzer Improvement Program (HIP), FMC-NORD. Systems Analyst, assisted in the preparation of the HIP proposal and conducted operational analysis of the HIP requirements to include interface with other automated command and control systems.

Joint Tactical Missile System, Martin-Marietta Orlando. Principal Investigator, developed Organizational and Operational concept of new missile system to include interface with operational commands.

Combined Arms Tactical Integrated Evaluation System (CATIES), Motorola. Principal Investigator, developed system design concept and organizational and operational requirements for CATIES.

Passive Artillery Locating System, ICS. Project Manager, developed study plan and supervised analysis of the operational requirements and system design recommendations for the PALS automated sound ranging system.

Elevated Target Acquisition System, Magnavox. Project Manager, refined operations concept, developed interface requirements between ETAS and other automated systems, and conducted preliminary analysis of ETAS fusion requirements.

Multiple Launch Rocket System, LTV. Systems Analyst, assisted in the development of a report on the application of MLRS in a Korean context.

Field Artillery Ammunition Supply Vehicle, BMY. Systems Analyst, assisted in the preparation of a report on the combat capabilities of the FASV and development of a command and control concept for its employment.

HIGHLIGHTER, Raytheon. Principal Investigator, reviewed Bi-Static radar system concept and provided recommended modifications to system design and command and control plan.

## **MILITARY EXPERIENCE**

Senior Concepts Officer, Directorate of Combat Developments, U.S. Army Field Artillery School, Fort Sill, Oklahoma, 1979 to 1983. Responsible for articulating user requirements through the development and publication of Organizational and Operational Plans, conducting interface with other TRADOC agencies and developers (both governmental and industrial), representing U.S. Field Artillery interests in international Quadripartite Working Group meetings, and ensuring that developmental systems were integrated into the force. Specific accomplishments include the development, coordination, and publication of the following O&O Plans: Multiple Launch Rocket System (MLRS), FireFinder Radar System (Q36/Q37), Remotely Piloted Vehicle (RPV), Advanced Field Artillery Tactical Data System (AFATDS), Division Support Weapon System (DSWS), Corps Support Weapon System (CSWS), Corps Headquarters and Headquarters Battery, Field Artillery delivered Mine Employment - RAM/ADAM (TC 6-20-5), and Army 21 Field Artillery Employment. Contributing author to the Fire Support Mission Area Analysis (FSMAA), Integrated Battlefield Concept, AirLand Battlefield Concept, and Army 21 Concept.

Operations Officer (S3), III Corps Artillery, Fort Sill, Oklahoma, 1978 to 1979. Responsible for the training and operations of a 7000-man unit of 11 battalions, to include the planning and supervision of all training, allocation and scheduling of school support requirements, unit readiness and organizational documentation, development of overseas deployment plans, and conduct of deployment exercises.

Operations Officer (S3), 212th Field Artillery Group, Fort Sill, Oklahoma, 1976 to 1978. Responsible for the training and operations of a 2500-man unit of 4 battalions, to include the planning and supervision of all training, allocation and scheduling of school support requirements, unit readiness and organizational documentation, development of war plans, and execution of deployment and operational readiness exercises.

Operations Officer (S3), 6-37 FA (155/8-Inch), Camp Essayons, Korea, 1975 to 1976. Responsible for the training and operation of a 750-man unit to include the planning and supervision of all training, unit readiness and organizational documentation, development of war plans, and execution of deployment and operational readiness exercises.

Tactics Instructor, U.S. Army Field Artillery School, Fort Sill, Oklahoma, 1972 to 1975. Responsible for the development of lesson plans for 60 separate classes covering over 250 hours of advanced and basic tactics instruction, providing platform instruction to officer and NCO students, and assisting in the development of tactical doctrine. Assisted in writing the following doctrinal manuals: Fire Support in Combined Arms Operations (FM 6-20), Corps, Brigade, and Division Artillery Operations (FM 6-20-1), Field Artillery Cannon Battalion Operations (FM 6-20-2), and Field Artillery Target Acquisition (FM 6-121).

Operations Officer (S3), 6-37 FA (155/8-Inch), Camp Pellham, Korea, 1970 to 1971. Responsible for the training and operations of a 750-man unit to include the planning and supervision of all training, unit readiness and organizational documentation, development of war plans, and execution of deployment and operational readiness exercises.

Assistant Operations Officer (G3-Ops), 24th Infantry Division, Fort Riley, Kansas, 1968 to 1969. Principal staff officer responsible for the operations of a 19,000-man unit of 27 battalions, to include the planning, allocation and scheduling of support requirements, unit readiness and organizational documentation, development of overseas deployment plans, and conduct of deployment and operational exercises.

Battery Commander and Battalion Executive Officer, Augsburg, Germany, 1966 to 1968.

Forward Observer and Battery Fire Direction Officer, 1-5 FA (105/T), Republic of Vietnam, 1965 to 1966.

Nuclear Weapons Officer, 2-32 FA (Honest John), Fort Riley, Kansas, 1964 to 1965.

## **ADDITIONAL QUALIFICATIONS**

### **Publications/Papers:**

"Loaded to Kill," Field Artillery Journal, March to April 1983

White Paper, "A Concept for Leveraging the Effectiveness of Installation Live Fire Ranges", 24 October 1989

### **Memberships:**

Association of the U.S. Army

Field Artillery Association

American Defense Preparedness Association

Boy Scouts of America

American Red Cross

Armed Services YMCA

Rotary International

Goodwill Industries

Howard Rubin's forte as an artilleryman was his ability to apply practical solutions to tactical problems. Almost single-handedly he wrote the original employment concepts for the Multiple Launch Rocket System (MLRS), the Army Tactical Missile System (ATACMS), and the Advanced Field Artillery Tactical Data System (AFATDS). His capability to develop sound procedures and techniques is based on his extensive experience in tactical units dealing with challenging, operational issues daily. His imprint can also be found on the Paladin Self-Propelled Howitzer, SADARM and the Palletized Loading System through his work in the Directorate of Combat Developments at Fort Sill.

Mr. Rubin left the Army after twenty years of service and has established himself as one of the finest citizens of his community -- Lawton, Oklahoma.

A list of his activities begins with these:

**1. Community-Wide**

Chairman, Lawton Certified Cities Human Needs Committee, 1995-1996.  
Chairman, Lawton Certified Cities Implementation Plan, 1995 to Present.  
Annual panel member for area Hugh O'Brian Youth Organization (HOBY), Community Leadership Workshops (CLEWs) and keynote speaker for HOBY state assembly 1994.

**2. United Way, Lawton/Fort Sill**

Vice President (top volunteer position), 1995 to Present.

**3. Rotary**

President, July 1994 through June 1995.  
Member of the Lawton Rotary Club, 1986 to Present.  
Lawton Rotary Annual Track Meet Coordinator, 1989 through 1994.

- Meet has been sponsored by the combined Rotary Clubs of Lawton since 1919.
- Track Meet conducted for all 35 Lawton Elementary Schools, grades one through six.
- Currently 3000 youth participants for each meet.
- Over 80 Rotarians involved in meet activities.

Member of Club Board, 1990 to Present.  
Presented Paul Harris Fellowship Award, 1994 -- Club sponsored funding through membership election.

**4. Red Cross**

Served as a member of the Board of Directors of the Comanche County Chapter of the American Red Cross from 1990 to 1994.  
In 1990 and 1994, served as Chairman of the Search Committee for a new Executive Director.



- Director selected in year one and served for two and a half years.
- During that time he doubled the size of the volunteer organization, instigated a three-fold increase in program services, successfully supervised two relief efforts for recognized local disasters, increased United Way funding by 70%, and ensured that the local chapter was one of the first granted a charter under the stringent Red Cross Reorganization Program.
- From 1991 to 1993, served as chairman of locally administered trust fund designed to provide for maintenance of the chapter facilities. During the time of his chairmanship, the Red Cross was able to use this instrument to fund major renovations to the facility while still growing its corpus by 10%.

## 5. Armed Services YMCA

National Board of Directors, 1995 to Present.

Served as member of the Board of Management of the Lawton/Ft. Sill Branch of the Armed Services YMCA from 1989 to Present.

President of the Branch Board of Management for two years, 1992 and 1993

- Number of families served increased by 300%
- Facility usage increased by 200%
- Organization's first Long-Range Plan developed and published
- Convinced National Headquarters to write-off over \$50,000 in branch debt
- Convinced National Headquarters to grant branch \$50,000 per year for five years

1993 served as Chairman of the Search Committee for a new Executive Director.

## 6. Arts for All

Served as a member of the AFA Budget and Allocation Committee from 1991 to Present.

Served as the Chairman of the Budget and Allocation Committee from 1993 to Present.

## 7. Boy Scouts

National Board of Directors, 1995 - 1996.

President, Black Beaver Council, 1995 - 1996.

Vice President, Last Frontier Council, Present.

Registered member of the Boy Scouts of America, 1979 to Present.

Recognition:

- Vigil Honor in the Order of the Arrow
- Scouter's Training Key
- District Award of Merit
- Silver Beaver recipient
- Wood Badge Trained -- SC-285

Scoutmaster for council contingent to the 1981 National Jamboree.

Council Jamboree Coordinator.

- National (1985, 1989, and 1993)
- World (1987 and 1991)

Unit Committee Member.

Troop 145 Advancement Chairman, 1979 to 1983.

Troop 175 Committee member, 1980 to 1983.

District Board Member, 1983 to 1986.

Member of District Adult Leader Training Team, 1980 to 1990.

District Advancement Chairman, 1983 to 1986.

Council Board Member, 1987 to Present.

Council Advancement Chairman, 1987 to 1988.

Council Executive Committee member, 1988 to Present.

Vice-Chairman of search committee for Council Scout Executive, 1988 and 1990.

Council Vice President for District Operations, 1988 to 1990.

Council Vice President for Administration, 1991 to Present.

Chairman of Council Long-Range Planning Committee, 1993.

Chairman of Council Popcorn Sales, 1986 to 1991.

Council and District Training Committee, 1986 to Present.

Co-Director of the Southwest Oklahoma Asthma Support Group "Asthma Camp", 1983 to 1989.

- Camp attended by families with asthmatic children
- Average of 40 families per year for three day week-end experience
- Provided program and facilities support to medical staff and participants
- Recruited and supervised an average of 30 volunteer Scouts and Scouters per camp

Vice-Chairman of Camp Capital Improvement Campaign, 1991 to 1993.

Wood Badge Staff member.

- Coach/Counselor -- 1987 (SC-342)
- Assistant Scoutmaster -- 1990 (SC-403)
- Assistant Scoutmaster -- 1993 (SC-12)

Campmaster Program.

- Member 1990 to Present.

## **8. Goodwill Industries Board**

Member, 1989 to 1992.

## **9. Field Artillery Association**

In addition to all these community services outlined above, Howard Rubin is assisting General Kerwin and the Field Artillery Association as a key member of the monument committee.



Crosby International, Incorporated  
6462 Little River Turnpike, Suite E  
Alexandria, VA 22312-1411  
(703) 642-6200; Fax: (703) 642-6205

John S. Crosby  
President

OCS HALL OF FAME  
SELECTION COMMITTEE  
FORT SILL, OKLAHOMA 73503

Gentlemen:

The purpose of this letter is to strongly endorse the nomination of Major (Retired) Howard H. Rubin, for induction into the OCS Hall of Fame.

Howard Rubin worked directly for me on numerous organization and operation plans when I was Commandant of the Field Artillery School. Many of the key programs in our Army today due in large measure to his superb efforts. They include the Multiple Launch Rocket System (MLRS), Firefinder Radar, AFATDS, Paladin and SADARM to name the most notable.

In addition his contribution to Lawton and the State of Oklahoma have been recognized by Congressional and state officials via awards and recognition as a distinguished citizen.

He is an outstanding leader and superb human being.

Sincerely,

John S. Crosby  
Lt. General, US Army, Retired



1201 East Abingdon Drive, Suite 425  
Alexandria, Virginia 22314  
(703) 684-0853

20 March 1996

Administrator  
OCS Hall of Fame

Dear Sirs,

It is indeed an honor to recommend Howard Rubin for induction into the Field Artillery OCS Hall of Fame. Having been involved with several of the induction ceremonies during my three plus years as Commandant, I understand the importance and values associated with the membership in the Hall of Fame. Many honorees were close personal and professional friends. I therefore feel very comfortable in this recommendation as I know Howard has and continues to make significant contributions to the Field Artillery, our soldiers, their families, and the Lawton-Fort Sill community.

I truly believe it would be an injustice to all to not include Howard with his contemporaries in the Hall of Fame. He represents what the Hall of Fame stands for -- a true soldier-civilian who spends countless hours making the total community a better place for all. I wholeheartedly endorse Howard's induction into the OCS Hall of Fame.

Sincerely,

A handwritten signature in cursive script that reads "R. J. Hallada".

Ralph J. Hallada  
Major General, USA (Ret)

*Of many requests for recommendations  
this is only one of two I have ever  
submitted. R.J.H.*



Office of the Mayor  
103 SW 4th Street  
Lawton, Oklahoma 73501  
(405) 581-3301  
TDD Available

December 7, 1994

Board of Directors  
OCS Hall of Fame  
Fort Sill, Oklahoma 73503

Dear Ladies and Gentlemen:

This letter is written in support of Howard Rubin's induction into the OCS Hall of Fame.

I am not familiar with Mr. Rubin's military career, but his civic contributions to Lawton are numerous and have affected hundreds of citizens. I sincerely believe his achievements in support of our community deserve the recognition of OCS graduates worldwide.

Howard Rubin was recognized as Lawton's Citizen of the Month in May 1993. This honor was based on his selfless service to our community through a myriad of civic programs. He is an outspoken advocate of the Hugh O'Brian Youth Organization and was the keynote speaker at the state assembly in 1994. He served on the Board of Directors of the Comanche County Red Cross from 1990-1994. In 1989 he joined the Board of the Lawton-Fort Sill Armed Services YMCA, and chaired the search committee for a new executive director in 1993. He earned considerable recognition for his involvement with the Boy Scouts of America during the past 15 years; in 1981 he was the scoutmaster for the council contingent to the National Jamboree, and has coordinated both the national and world jamborees several times.

Howard Rubin's enthusiastic support of the Lawton-Fort Sill community, his commitment to a better quality of life for all our citizens, and his personal integrity make him an ideal candidate for induction to the OCS Hall of Fame. I highly recommend you consider him for this honor.

Sincerely,

  
John T. Marley  
Mayor