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Schell, Roger R.

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RESUME OF ROGER R. SCHELL

Roger R. Schell, Lieutenant Colonel, United States Air Force, was born in Richey, Montana, on 28 April 1940. He graduated with a BSEE from Montana State College in 1962, a MSEE from Washington State University in 1963, and a Ph.D. in Computer Science from MIT in 1971.

For five years until 1968 he served as a software engineer in program offices. As the software manager for \$5 million per year for five major programs he directed the validation and improvement of software design and test methodologies that are the direct basis for several current military standards. While at MIT he designed, implemented, tested, and documented multiprocessing and dynamic reconfiguration capabilities for the Multics operating system. About 12,000 words of this object code were adopted as part of Honeywell's commercial product. For six years until 1977 he served as program manager and technologist for the Air Force \$9 million ADP System Security Program.

His individual research resulted in the "security kernel" approach that is still the principal technological basis for DoD computer security developments. He directed the successful application of this idea to both operational and laboratory environments. During this time he also served as an in-house consultant to a number of program offices in the areas of software acquisition and security.

He joined the faculty of the Naval Postgraduate School in 1978 as a USAF/USN exchange officer. He is currently an Assistant of Computer Science, with primary responsibility for instruction in operating systems. He is the department course coordinator for the Computer Science Curriculum. He is a member of the specification committee for the Computer Center machine replacement. He is a member of the interdepartmental committee on real time computer education. His research interests include computer security and multi-microcomputer operating systems.

His decorations include the Meritorious Service Medal, Air Force Commendation Medal, Organizational Excellence Award, and National Defense Medal. He is a member of the Association for Computing Machinery, Institute of Electrical and Electronics Engineers, and the Air Force Association.

