

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed for Form Page 2.
Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Suhas S. Pharkute, Ph.D		POSITION TITLE Chief Executive Officer, Syna Intelligence	
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
University of Poona, India	B. S	1994-1998	Instrumentation Engineering
Idaho State University, ID	M. S	1999-2001	Measurement and Control Engineering
Idaho State University, ID	Ph.D	2001-2006	Engineering and Applied Science

A. PERSONAL STATEMENT

The goal of the proposed research is to develop a novel telehealth technology and evaluate its use in two clinical settings involving management of children with autism spectrum disorders. Dr. Pharkute brings specific expertise in developing telehealth environments for state health services and for underserved populations, including rural communities. He has based his doctoral thesis on developing telehealth systems for rural health care needs.

B. PROFESSIONAL EXPERIENCE

Positions and Employment

- ◆ 1998 - 1999 Faculty Member, Department of Computer Engineering, University of Poona, India
- ◆ 1998 - 1999 Field Engineer, Honeywell, India
- ◆ 2000 - 2002 Research Fellow, College of Engineering, Idaho State University, Pocatello, ID
- ◆ 2002 - 2003 IT Research Fellow, Institute of Rural Health, Idaho State University, Pocatello, ID
- ◆ 2003 - Computer Information Systems Manager, PCS Edventures, Boise, ID
- ◆ 2006 - CEO, Syna Intelligence, Boise, ID
- ◆ 2007 - System Architect, Caring Technologies (dba Behavior Imaging Solutions)

Honors and Awards

- ◆ 1994 Technical Scholarship Award, University of Poona, India
- ◆ 1999 - 2003 College of Engineering Graduate Assistant Award, Idaho State University, Idaho
- ◆ 2000 - 2003 Research Fellowship Award, Idaho State University, Idaho
- ◆ 2004 First Prize in Poster Presentation, American Telemedicine Association (ATA) Conference, Denver, Colorado

A. Selected peer-reviewed publications (in chronological order).

- Laxminarayan S., **Pharkute S.**, (2003), "Evaluating Potential Telehealth Activities on Different Amounts of Bandwidth", ATA 2003: Healthcare Solutions Through Telemedicine. WON FIRST PRIZE.

- **Pharkute, S**, Oberleitner, R, Laxminarayan, S, Suri, J, Zhang, H, (2005), “Telemedicine Application Which Leverages Low Bandwidth Connectivity”, Annual Meeting of the American Telemedicine Association, Colorado
- Oberleitner, R, **Pharkute, S**, Laxminarayan, S, Ball, J, H. Harrington, R. Naseef, (2005), “Store and Forward Based Telemedicine Platform for Treatment of Autism”, Annual Meeting of the American Telemedicine Association, Colorado
- **Pharkute S.**, Laxminarayan S., Oberleitner R.M., Bosworth K., (2006) "Asynchronous JavaScript and Variables (AJAV) based Low Bandwidth Telemedicine Applications", American Telemedicine Association, Annual Conference, San Diego, CA.
- Oberleitner, R, Reischl, U., Ball, J., Harrington, J., Abowd, G., **Pharkute, S.**,(2006), "Remote Autism Evaluation Through Telehealth Technology: Two Case Studies",5th International Meeting For Autism Research (IMFAR), Montreal, Canada.
- Nandikolla, V, Shadle, S, Pyke, P. Gardner J, Grover, R, **Pharkute, S**, (2008), “Real-World Industry Collaboration within a Mechatronics Class”, 38th ASEE/IEEE Frontiers in Education Conference, Saratoga, NY.

B. Research Support.

Completed Research Projects

1. Title: Low Bandwidth Web based Application Platform using Asynchronous Java Script Variables (AJAV)
Objective: Development of Asynchronous JavaScript and Variable (AJAV), which is comparable to the available AJAX. AJAV is proven to be as high as 42% more efficient compared to AJAX for various applications considering both for urban and rural network.
2. Title: Portable Media Application Hosting Environment
Objective: Design and prototype development for customized application hosting environment on any portable media. This is a self-contained environment that eliminates need of any extra software installation on system drive.
3. Title: Telehealth Platform for Rural Areas
Objective: Design and development of content management system database, Intranet services like calendar, document sharing, and meeting scheduler.
4. Title: PHP Source Code Encrypter
Objective: Development of PHP encrypter system for operating systems for different versions. This is a tool available for PHP programmer’s community to protect their source code against piracy.