



Technology and Experience Being a Third-Party Algorithm Developer

TeleSecurity Sciences, Inc. (TSS)

Las Vegas, NV

Samuel M. Song

smsong@TeleSecuritySciences.com

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- Launched in January 2006
 - Founders:
 - D. Boyd, Ph.D., Imatron, InVision, etc.
 - S. Song, Ph.D.
 - H. Hu, Ph.D.
 - First product: Common Workstation (CW)
 - 3D EDS Workstation (2006)
 - CGUI for EDS (2011) → CW for Checkpoint CT (2019) → CW for OPS (2021)
 - Second product: Automatic Threat Recognition (ATR)
 - Automatic Threat Recognition (2010)
 - ALERT Segmentation Challenge (2010)
 - SBIR (2012) → BAA 13-05 (2013) → BAA 17-03 (2017) → LRBA (2020) → LRBA (2022)



- Private Investments
 - Individuals (Seed, 2006)
 - Institution (Series A, 2009)
 - Institution (Series B, 2013)
- Industrial Contracts
 - Development contracts (ATR, eBeam Control, Reconstruction, etc.)
 - Licensing
 - CW: four OEM/vendor
 - ATR: one OEM
- Federal Funding
 - DHS S&T, DNDO, TSA and NIH
- Spin-offs: two medical companies



- Close to a hundred employees (EE, ME, Math, Physics, CS, Chemistry, Finance, etc.) have worked for TSS/spin-offs.
- Competing with tech giants: not easy.
 - Have lost good/mediocre developers to Amazon, Google, etc.
 - Two current developers have been with TSS since the “beginning”
- Enticing people to move to Las Vegas: not easy
 - Hiring UNLV graduates, interns



- Certain experiences with Federal contracts
 - White paper gets accepted, full proposal submitted. Program cancelled.
 - Award letter received, then rescinded.
 - Therefore, contract must be signed, otherwise no guarantee.
- Investments
 - Very, very difficult
 - Money must be received, otherwise no guarantee.
- NIH vs DHS/TSA programs
 - NIH is more competitive
 - DHS/TSA programs are more demanding with weekly, bi-weekly or monthly meetings.



- This is a tough business area.
- Funding
 - Continue to submit proposals: DHS S&T, TSA
 - Slight up-tick in licensing fees
 - Remain upbeat
- Staffing
 - Hire as needed
- Licensing