

BELKASOFT COLLABORATES WITH PITTSBURGH TECHNICAL COLLEGE

Belkasoft actively cooperates with a number of universities and colleges, providing them with software for courses in Digital Forensics. Philip Grabowski, an instructor at Pittsburgh Technical College, shares his experience with Belkasoft Evidence Center in the classroom.

One of the most important aspects to successfully landing a Cyber Security or Security Forensics job is to demonstrate evidence of related work experience, internships, and certifications, or to participate in Cyber Security Challenges. Philip not only teaches the theory of forensics and cybersecurity, he uses hackathon's and cyber security challenges that are provided free of charge to his students from Symantec Coyote Diamond, IBM's Master the Mainframe contest, and the Digital Forensic Research Workshop (DFRWS).

“ *Belkasoft Evidence Center played a key role in solving a classic murder case for our 2017 challenge. My students will use the product this fall in the IoT and Cloud class and to solve the 2018 challenge which is a raid on an illegal drug lab that catches on fire.* ”



About the case

Grabowski's DFRWS presented a classic whodunit murder case for the 2017 challenge titled "The Murder of Betty Hallym." This case involved a husband, wife, and lover. Simon, the husband, was in the back bedroom watching a movie on the Kodi app using a Raspberry Pi Television. He was wearing head phones. His wife was in the living room listening to music. After the husband finishes watching the movie, he goes out to the living room and finds his wife unresponsive and on the floor.

When the police arrive they find many electronic devices that could be relevant to the investigation of the alleged murder. There are door sensors at the main door, a motion sensor on a shelf, the victim's Mi wristband and mobile phone, an Amazon Echo, a Google wifi router with SmartThings Hub, and a Raspberry Pi connected to a TV with an HDMI cable. The police question Simon and attempt to corroborate his story by analyzing his Samsung Note II and her Samsung Note II.

Belkasoft Evidence Center was able to drill down into a Group Me chat app on Betty's phone to access a conversation with another actor named John Macron, who contacted her on the day of her murder. He wanted to see her, but she was getting paranoid and believed people were watching them, so she broke off the meeting engagement. John didn't take the news lightly, used profanity directed at Betty, and asked her who she thought she was. Eight hours later Betty was dead.

Evidence found on the Raspberry Pi TV and corroborated with timestamps determined that Simon was indeed watching a movie in the bedroom. An argument at the time of the murder was picked up from the Amazon Echo, and door sensor time stamp data showed the door opened twice using dump files from Wireshark. Further investigation and questioning of John Macron should solve this case.

DFRWS will conduct a 2018 challenge using Internet of Things (IoT); Grabowski's class will attempt to solve a fire that occurred at an illegal drug lab during a raid. His students will use the Belkasoft Evidence Center this fall in the IoT and Cloud class offered through the School of Information Systems and Technology at Pittsburgh Technical College.

Phil Grabowski

IT Network and Security Forensics Instructor at Pittsburgh Technical College located in Oakdale, Pennsylvania. He has an AS degree in Electronics from Penn Technical Institute, a BS degree in Information Systems with a concentration in Security from University of Phoenix, an MS in Management with a concentration in Security from Colorado Technical University, and an MS in Information Systems and Communications from Robert Morris University. Grabowski brings more than 20 years of experience as a hardware technician in the field to the more than 20 courses he has taught as a full-time PTC faculty member.

About Pittsburgh Technical College

PTC PITTSBURGH TECHNICAL COLLEGE

Pittsburgh Technical College has provided career-focused education to Western Pennsylvania and surrounding states since 1946. The college provides the education and support to get students in and out, and into a career they love. It is a heads in, hands-on, skills-based education, tailored to the needs of employers. PTC awards associate and bachelor's degrees and certificates in these areas: Business, Criminal Justice, Culinary Arts, Hospitality, Design, Healthcare, Nursing, Information Systems and Technology, Trades Technology, and Energy and Electronics Technology. The PTC college experience is empowering and inspiring, and culminates in experiential internships, clinical rotations and capstone projects.

PTC is a nonprofit institution accredited by the Middle States Commission on Higher Education, **3624 Market St., Philadelphia PA 19104.**

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