

DEVELOPERS OF 'KILLER ROBOT' WORKED UNDER ENORMOUS STRESS

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by Mabel Muckraker

The Sentinel-Observer learned today that Randy Samuels and others who worked on the 'killer robot' project at Silicon Techtronics were under tremendous pressure to finish the robot software by January 1 of this year. According to an informed source, top level management warned killer robot project staffers that "heads would roll" if the January 1st deadline was not met.

Randy Samuels, a Silicon Techtronics programmer, was indicted last week on charges of manslaughter in the now famous 'killer robot case'. Samuels wrote the flawed software which caused a Silicon Techtronics Robbie CX30 industrial robot to crush and fatally injure its operator, Bart Matthews. Matthews was a robot operator at Cybernetics, Inc. According to Silicon Valley Prosecuting Attorney Jane McMurdoch, Samuels

misinterpreted a mathematical formula, "turning harmless Robbie into a savage killer".

Our informed source, who wishes to remain anonymous and whom we shall call 'Martha' for the rest of this article, has intimate knowledge of all aspects of the Robbie CX30 project. Martha told the Sentinel-Observer that there was an enormous amount of friction between Robotics Division Chief Ray Johnson and the Robbie CX30 Project Manager Sam Reynolds. "They hated each others' guts", Martha told the Sentinel-Observer in an exclusive interview.

"By June of last year the robot project had fallen six months behind schedule and Johnson went through the roof. There were rumours that the entire Robotics Division, which he headed, would be terminated if Robbie [the

CX30 robot] didn't prove a commercial success. He [Johnson] called Sam [Reynolds] into his office and he really chewed Sam out. I mean you could hear the yelling all the way down the hall. Johnson told Sam to finish Robbie by the first of January or 'heads would roll'."

"I'm not saying that Johnson was ordering Sam to cut corners", Martha added. "I think the idea of cutting corners was implicit. The message was, 'cut corners if you want to keep your job'".

According to documents which Martha provided the Sentinel-Observer, twenty new programmers were added to the Robbie CX30 project on June 12th of last year. This was just several days after the stormy meeting between Johnson and Reynolds which Martha recounted.

According to Martha, the new hires were a disaster. "Johnson unilaterally arranged for these new hires, presumably by shifting resources from other aspects of the Robbie [CX30] project. Reynolds was vehemently opposed to this. Johnson only knew about manufacturing hardware. That was his background. He couldn't understand the difficulties that we were having with the robotics software. You can't speed up a software project by adding more people. It's not like an assembly line."

According to Martha and other sources inside the project, the hiring of twenty new programmers led to a staff meeting attended by Johnson, Reynolds and all members of the Robbie CX30 software project. "This time it was Sam [Reynolds] who went through the roof. He complained that the project didn't need more people. He argued that the main problem was that Johnson and other management people did not understand that Robbie CX30 was fundamentally different from earlier versions of the robot".

These sources tell the Sentinel-Observer that the new hires were not fully integrated into the

project, even six months later, when ten Robbie CX30 robots, including the robot which killed Bart Matthews, were shipped out. According to Martha, "Sam just wanted to keep things as simple as possible. He didn't want the new people to complicate matters. They spent six months reading manuals. Most of the new hires didn't know diddly about robots and Sam wasn't about to waste his time trying to teach them".

According to Martha, the June 12th meeting has become famous in Silicon Techtronics corporate lore because it was at that meeting that Ray Johnson announced his "Ivory Snow Theory" of software design and development. According to Martha, "Ray [Johnson] gave us a big multi-media presentation, with slides and everything. The gist of his 'Ivory Snow Theory' is simply that Ivory Snow is 99 and 44/100 per cent pure and there was no reason why robotics software had to be any purer than that. He stated repeatedly that 'Perfect software is an oxymoron'".

Martha and the other insiders who came forward with information, consistently portrayed Johnson as a manager in

desperate need of a successful project. Earlier versions of Robbie, the CX10 and the CX20, were experimental in nature and no one expected them to be commercial successes. In fact, the Robotics Division of Silicon Techtronics was operating heavily in the red since its inception six years ago. Either CX30 would succeed or Silicon Techtronics would be out of the industrial robotics business altogether.

"The earlier Robbie robots got a lot of press, especially here in Silicon Valley", said another source, who also wishes to remain anonymous. "Robbie CX30 was going to capitalize on the good publicity generated by the earlier projects. The only thing was that Robbie CX30 was more revolutionary than Johnson wanted to admit. CX30 represented a gigantic step forward in terms of sophistication. There were a lot of questions about the industrial settings that the CX30 would be working in. Much of what we had to do was entirely new, but Johnson couldn't bring himself to understand that. He just saw us as unyielding perfectionists. One of his favourite quotes was 'Perfection is the enemy of the good'".