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- 1.0.

Provides comprehensive coverage not only of what to do, but critical timing and sequence considerations for when to do it, how each element should be done, to whom to delegate required tasks and functions, how to manage the many functions, and why each is needed for the full range of controller responsibilities. This book will also serve as a frequently used reference for the more experienced controller. Barrett Peterson, Manager of Accounting Standards, Procedures, and Analysis, TTX Company The New Controller Guidebook includes everything the new controller needs to know, and worry about, on Day One. If you are new to the position, this should be considered mandatory reading. If you have held the position for years, reading this book will cause you to rethink certain processes and controls. If you aspire to the position, reading it will give you invaluable insight into how to get there and undoubtedly enhance your value to the organization. In short, this book is an invaluable resource to anyone pursuing a career in corporate accounting. Chris DAngelo, Controller, Executive Health Resources For an experienced financial professional, The New Controller Guidebook provides a broad coverage in several strategic topics and gives a good introduction as well as good background on integration within an organization. If document controllers don't have access to efficient technology to help manage all of this, your field teams won't be building off of the right information. Watch this ondemand webinar to learn PlanGrid best practices for managing sheets and documents from the moment the first version set is received through asbuilt handoff. Welcome to the acronymfilled wasteland know as building automation. You may look at that list and say holy moly, thats a ton of information. Building automation is a complex topic and this isnt some 1,000word guide designed to grab clicks and teach you nothing. Yes, I know, why is it called a building automation system. <http://www.esfpraktijk.nl/uploads/98-yamaha-waverunner-manual.xml>

Why dont they just call it an HVAC control system The BAS provides a user interface that allows the

end user to adjust the control settings, view the system status, and detect any potential issues related to building system performance. How you train and develop your people and how you execute your projects will allow you to outperform almost any technology that is unless you're still installing modems and Windows 95. At the end of the day if a system negatively impacts life safety then that system needs to be overhauled and fixed. Life safety quite simply is making sure that the health and wellbeing of building occupants are protected. When a system is down it's called downtime. Unplanned downtime is BAD, this is when things are down because of failures or unplanned events. The fact is energy savings, as an outcome ebbs and flows. Training has a huge factor in the success of staff efficiency. I address staff training in my article [How to create the ultimate project training plan](#). Or it could be as complex as controlling a wall of individually regulated fans fan wall based on the average of several different pressure sensors. Ultimately it doesn't matter, it all follows the pattern of These devices will consume airflow from the main line and regulate the pressurized air leaving them through a branch. The thermostat will allow a certain amount of pressure out via its branch lines. This is how the actuator is controlled. If so congratulations you've used an analog control system! You still see them in some situations mainly on ceiling mounted unit heaters and radiant heater coils that line the windows of buildings. This is a really simple description but the reality is that these systems are really simple. Often analog systems are combined with electromechanical systems. This unit heater will have a temperature element that reacts to changes in temperature. This will, in turn, cause the unit heater to turn on or off.

Essentially you have a microprocessor board that receives the signal from a button push or from some other action and then commands a corresponding output. When you talk to folks who have worked in the BAS industry for a long time they tend to define time periods by preDDC and postDDC. These inputs were prone to calibration errors that could result in readings that were several degrees off. Imaging cooling a space down to 72 degrees when in actuality the space temperature was 66 degrees. With DDC a facility operator simply needs to maintain the "offset" on his or her temperature sensor. This is a massive shift from having to maintain main trunk pressure, a temperature sensor, and branch pressure. This was huge! These air handler controllers could share their valve position to chilled water plants allowing the chillers to reset their chilled water setpoint. They are typically powered by 24 volts Alternating Current AC but they can also be powered by direct current voltage. The main communication standard used by DDC controllers was and is RS485 which is a twisted pair 3 or 4 wire cable. The two most common communication designs are wireless, and hardwired IP which has 3 different design patterns itself; ring, bus, and daisy chain. These are 802.11 wireless also known as WiFi and wireless mesh. Cisco has a version of PoE called UPoE which provides up to 60 watts of power. Side note, I personally prefer wireless as it provides more flexibility and is a lower total cost, when you factor install, wiring, and switchgear. Think about it, once the controller is wireless, which is my preferred approach, you will have freed yourself from all physical constraints except for power cabling. Power will be locally sourced from the equipment or through batteries. The BAS professionals job will switch from being focused on the physical installation of systems to being focused on IT systems like databases, analytics, and system integration.

Google processes 3 Trillion searches a year. 15% of these searches have never been seen before. Google has written programs powered by artificial intelligence that analyze millions of variables and determine the best search results to provide. It could be 50 years it could be 5 years. All it takes is someone like Elon Musk realizing that there is an industry ripe for change, choosing to enter the market. In this section, we are going to take a much deeper look at each of these layers and how they function within a building automation system. This database can be used for reporting. The final thing the server can be used for is, is for serving up the API for the building automation system. Supervisory devices are kind of like your home router. They collect all of the traffic from the field

controllers and consolidate this traffic. Communication trunks allow your field controllers to connect to one another and allow your supervisory devices to collect information from the field controllers. Typical features that exist in the supervisory device are BAS companies will use programming tools usually developed by the BAS vendor to program these field controllers. This is where the sensors and control devices exist. There isn't a ton to add here except that you are starting to see IP-enabled sensors that use Ethernet or WiFi for their communications. These servers will either take the form of a desktop machine or a rackmounted server. These servers will run the BAS software and will connect to the network using network interface cards NIC. Software supervisory devices are often known as softsupervisors, where the supervisory software exists inside a server instead of a dedicated device, are becoming more common. These devices will typically have an Ethernet NIC and a field trunk port to connect field buses. There are two prominent field buses right now. These field buses connect field controllers back to the supervisory device using a daisy chain architecture.

<http://ainma.com/images/canon-eos-d30-manual.pdf>

Each light is connected to the other light in a chain of lights. This is what modern field buses look like. These controllers are programmed using programming software. Nowadays you can log into a field controller and configure it to perform any control sequence you want it to. These controllers are specific to a single application. You cannot program these controllers you can only adjust preprogrammed settings. It really is that simple. To achieve that a BAS controller utilizes a variety of control modes. And in the world of BAS there are 4 main control modes. Rather than making this post even longer than it already is I'm simply going to include a link to past articles that describe each of the four control modes. The four control modes are I cover that in each one of the articles I linked above. We've already dug into the physical aspects of BAS now we're going to look at the software side of things. The reason is that I've already covered that earlier in this guide. With that being said let's dive in. But they do so much more than that. Whether you knew it or not databases are the lynchpin of your BAS. All the bits and pieces that make your BAS your BAS are often stored in databases. Trends, alarms, schedules, setpoints, and more. They are all stored in databases. You can read them here and here. But at the end of the day, the software can be broken down into two buckets. Database configuration software and programming software. This is very similar to the MVC framework used by many modern web applications. Because of this the settings that determine the configuration of the BAS are kept in a database and are called up by the BAS application as required. Let's talk about programming tools. One of the biggest issues faced by BAS companies is that each company has its own programming tool. Because of this, only those with the programming tool can configure the controllers.

<http://fxturfspecialists.com/images/canon-eos-d30-instruction-manual.pdf>

This leads a lot of customers to feel as if they are stuck with the BAS company who provided the controls. Because of that, I've spent a lot of time creating a vendor agnostic guide that dives deep into the concept of programming a BAS. Those UI options are known as thickclient and thinclient. A thickclient is the traditional method that is used for connecting to building automation systems. The reason this is called a thickclient is that there is actually an application running on your laptop. The problem with thickclient applications was the thought behind using web browsers like Google Chrome or Internet Explorer was that they would break the dependency on software like Java. Now instead of the BAS manufacturer having full control over their user interface, they are at the mercy of the web browsers code, which they may or may not understand. And IoT devices like IP cameras and baby monitors are not even within the same continent as BAS devices. Anyone who tells you their BAS is secure and unhackable, is full of it. Anything can be hacked, given enough time, money, and skill. From there the customer will select a set of controls to mitigate the vulnerabilities. There are multiple types of controls but that is beyond the scope of this guide. I've included three of these tasks below. However, I've been to dozens of sites where the entire facility team uses the same username

and password. Im constantly having to change my password at work and gosh is it aggravating. A firewall is a piece of software that allows and denys network traffic from moving across the network. A firewall is like a security guard who decides which people get access to a building. But before I describe how to fix that issue, lets discuss what a port is. Ports allow the software to categorize and segment the data they are sending rather than just sending a huge blob of data. This creates a huge hole in the network that attackers can exploit. This is actually easier than it sounds.

I also briefly talked through my process for performing BAS upgrades. But the good news is that the steps I describe above are fairly intuitive. I shared these steps with you because I wanted you to have both eyes open when you decide to take on an upgrade project. A building automation system is chock full of features that allow you to analyze the current and historic status of your BAS. The first step to taking your BAS to the next level of functionality is to level set on what these features are. Youve probably guessed by now that the often unused features of a BAS are Trends, Alarms, and Reports. There are two main types of trends Pretty simple right. The good news is the majority of trends are interval trends, easy to set up, reliable, but limited to the time slice you setup. Hence the term change of value. These trends can be immensely useful when you are troubleshooting a specific issue or you are trying to measure a point that changes by very minute details. Period! Oh, if I had a dollar for how many times Ive visited facilities that had over 10,000 unacknowledged alarms. I remember this one customer I visited. Their central plant, yes the chillers. Where down for almost an hour before someone took notice. The reason why How can you go and take a horribly implemented alarming strategy and turn it around Yep, delete all your alarms. Poof gone. For most buildings hope you noticed that caveat your list should look something like this. Theres no reason to have sensors on filter statuses and common corridor space temperatures. I know that this flies in the face of the alarm everything strategy but as youll see in a second there are things that are more effective than alarming. Alarming should be for failure conditions not hot or cold calls or clogged filters. But what does that look like Could you imagine if you went to Home Depot and each store called lights something different.

Maybe one store feels like lights should be called glimmers, and another store wants to call them shiners. Imagine your confusion as you tried to communicate what you wanted to buy. BAS standards are the same way. A BAS standard, done right, can tell folks exactly how you want your BAS to work! Pg 194195 Building Automation Systems A to Z, 1st Ed. Youll find this on page 213. This would then be prioritized and any system that falls above a threshold determined by you would be a candidate for alarming. Ive written a quick post to help you with this. You can read it right here. Well, my friends, reporting is that way. Reports can do that. Reports can do that. Reports can do that as well. Yet in so many of the sites, Ive visited reports are seldom if ever used. Why is that And we all know we have to use alarms for critical things. Fast forward 10 years and IT is involved in almost every aspect of building automation. From servers to IPenabled sensors, if you are hoping to avoid IT youre out luck. Dealing with IT. Even though the webinar has long since passed, I recorded the three strategies I taught to the webinar attendees. Heres a summary of the recordings The world we exist in right now is only becoming more and more dependent on technology. That world is bleeding into the BAS world more and more every day. Thats why a large amount of the content Ive produced has focused on IT. But sometimes it can be hard to sort through all of the great content Ive created. Thats why Ive taken the time to segment out all of the content in some easy to access links below Youre actually using a server right now to access my WordPress site that is hosted on a cloudbased server. Its one of the three things that helped catapult my career. It also seems to be one of the topics that confuses BAS professionals the most. If youd like to shortcut that whole process and learn exactly what you need to know about IT in days vs.

It will literally save you years of studying and thousands in travel costs. And now you want to either enter the world of BAS or get your team up to speed. Yes, that even applies to sales folks and project

managers. But what exactly do you need to know. And what can you expect when you go to your first interview. Well, my friends, you are in luck because I answered those exact questions in past articles and episodes of my podcast. Check them out below There's just not a lot of good programs out there to develop talent. That's the whole reason why I started this blog and created my training programs. That's why so many large scale organizations have yearly assessments. Unfortunately, these assessments often test for qualitative things like how a manager feels an employee is doing. You can learn more about our assessment by clicking [here](#). This is where our industry really falls flat. Outside of our online training programs you have three options. We are looking into adding proctored exams that require hands-on setup of systems as well. I'm sure you have questions after reading this so drop down in the comments section and ask away, I'd love to hear from you. Just imagine how good my premium training programs are. Check them out by clicking [here](#). The TMS software is designed to operate any type of toll lanes as predefined. This software is easily configurable to meet specific requirements for special purpose lanes such as motorcycle and ETC lanes. View Complete Details Rajdeep's MBC is a stand alone unit with separate power supply. The following equipment is controlled by the MBC in case of Lane controller Failure Over Head Lane Sign Traffic Light Automatic lane exit barrier View Complete Details Control Room. The alarm switch lies in the Toll Booth, wherein the alarm Alarm is activated by Hand Switch Module or Activation of the. Panic Alarm is observed in the Control Room through the Panic Alarm.

Controller Panel with a visible depiction of source location of the View Complete Details Get Best Deal I agree to the terms and privacy policy All rights reserved. Consider your personal interests and skills as well as job tasks, pay and conditions. While we aim to provide material that is accurate and up to date, use your skill and judgement, and seek advice suited to your circumstances. We do not endorse material on those websites, or any associated organisation, product or services. Job Outlook provides information about Australian careers, labour market. The capabilities of SIMATIC controllers are constantly being expanded with new functions. Let yourself be inspired! In this way, it can identify impending damage before it occurs. How is AI used in manufacturing. What will the factory of the future look like. And who's responsible for the actions of AI You'll find the right controller for your application in our interactive SIMATIC controller portfolio. They are available in both standard and safety versions. SIMATIC S71500 is the latest controller generation and therefore the most futureproof controller with optimal system performance. They combine the advantages of a SIMATIC S71500 with the design of a SIMATIC ET 200SP. With SIMATIC ET 200pro, a CPU module with S71500 technology is available as a modular space saving solution for tough environmental conditions near the machine. The PC based controllers operate independently of the operating system. This allows flexibility in the design or adaption of automation solutions, without the need to constantly accumulate additional expertise. Register now and subscribe to the newsletter. Online Support, Technical Support, Application Support and Managed System Services. Contact us! Of course you do! For your application we offer the TIA Selection Tool to support all project planners, beginners and experts alike. Please enable JavaScript and reload the site.

How to enable JavaScript Please note that there might be constraints on site display and usability. For the best experience we suggest that you download the newest version of a supported browser. Click [here](#). The Basics of Construction Accounting Workshop is designed for accounting professionals new to the construction industry as well as non-accounting construction industry professionals who want or need a better understanding of construction accounting processes, construction cost management systems, job costs and job cost reporting, the WIP, and the most important elements of a contractor's financial statements. This one-day class presents an introduction to the key processes that make construction accounting unique. If you wish to attend a course at a CFMA chapter, see a list of upcoming courses, or visit CFMA's Education Online website to learn more about CFMA's web-based education. Prerequisites This is a group live program at the Basic level. No prerequisites or advance preparation required. Upon completing this one-day workshop,

you will be able to Who Should Take This Course. Here's what you can expect The workshop uses a sample contractor, a variety of problems, and several exercises that enable participants to evaluate real-life situations. You'll come away with a deeper and broader understanding of construction accounting and financial management. State boards of accountancy have final authority on the acceptance of individual courses for CPE credit. Complaints regarding registered sponsors may be submitted to the National Registry of CPE Sponsors through its website Web site www.learningmarket.org. Performance level d for applications with quick steering, auto guidance, GPS steering, 4 wheel steering, joystick steering and mini wheel. Contractors need machines that can safely maneuver in a tight spot. At the same time they still need to be powerful enough to get the job done.

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Explaining operations and answering driver and pedestrian questions. Taking directions from supervisor, traffic authority workers, construction project managers, police officers, paramedics, firefighters, auditors and government officials. Setting up and taking down temporary road signs. Read less Traffic Controllers work outdoors in all kinds of weather. They are required to have good communication and sequential planning skills. What can I earn as a Traffic Controller. Your accreditation will likely be limited to the state or territory it's earned in, so check with your state government department for more details. Complete a course that covers both Implement Traffic Control Guidance Plan RIISS00041 and Traffic Control Management RIISS00044 components. Earn a White Card, which will allow you to safely enter construction zones all around Australia. Explore related qualifications SEEK users who have worked as a Traffic Controller have studied these qualifications. All NSW VIC WA QLD TAS SA NT ACT Certificate III in Civil Construction This certificate will prepare you to work in civil construction in areas such as bridge construction, pipe laying or road construction. Compare institutions See 2 institutions that offer this course in Australia. Certificate II in Civil Construction This qualification provides you with the foundation knowledge to prepare for entry level operational roles in civil construction. Compare institutions See 3 institutions that offer this course in Australia. Certificate III in Security Operations This certificate provides you with the skills and knowledge to provide security services in a wide range of contexts. View course details See 1 institution that offers this course in Australia. Powered by Skills and

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